

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 9 1960



FOR *Relief...*
OF THE MOUTH AND THROAT

RECOMMEND...

'PLANIDETS'

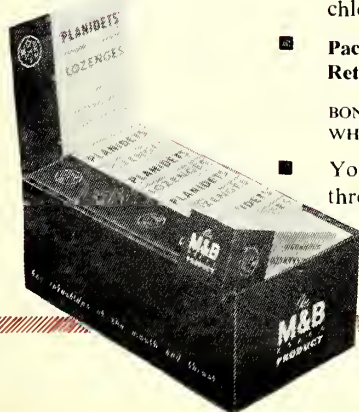
trade mark

brand

ANTISEPTIC/ANALGESIC

SAFE • EFFECTIVE • PROFITABLE

- 'Planidets' are justly gaining in popularity with both customers and prescribers as a pleasantly-flavoured combination of effective antibacterial and antifungal agents with a safe local analgesic.
- The prompt soothing action and powerful antiseptic properties of 'Planidets' provide the ideal lozenge to deal with the common mouth and throat infections, or to reinforce specific measures in more serious conditions such as tonsillitis and Vincent's disease.
- 'PLANIDETS' CONTAIN
dibromopropamide embonate 1 mg.
butylaminobenzoate 4 mg.
chlorphenoxium amsonate 1 mg.
- Packed in attractive display outer of ten tubes, each containing twelve 'Planidets'
Retail price 2/6d. per tube.
- BONUS TERMS OF 13 TO THE DOZEN—OBTAINABLE THROUGH YOUR WHOLESALE—INCREASE YOUR PROFIT MARGIN
- Your recommendation will be supported by regular promotion to the medical profession throughout the winter.



MANUFACTURED BY
MAY & BAKER LTD

An M&B brand Medical Product

DISTRIBUTORS
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD · DAGENHAM

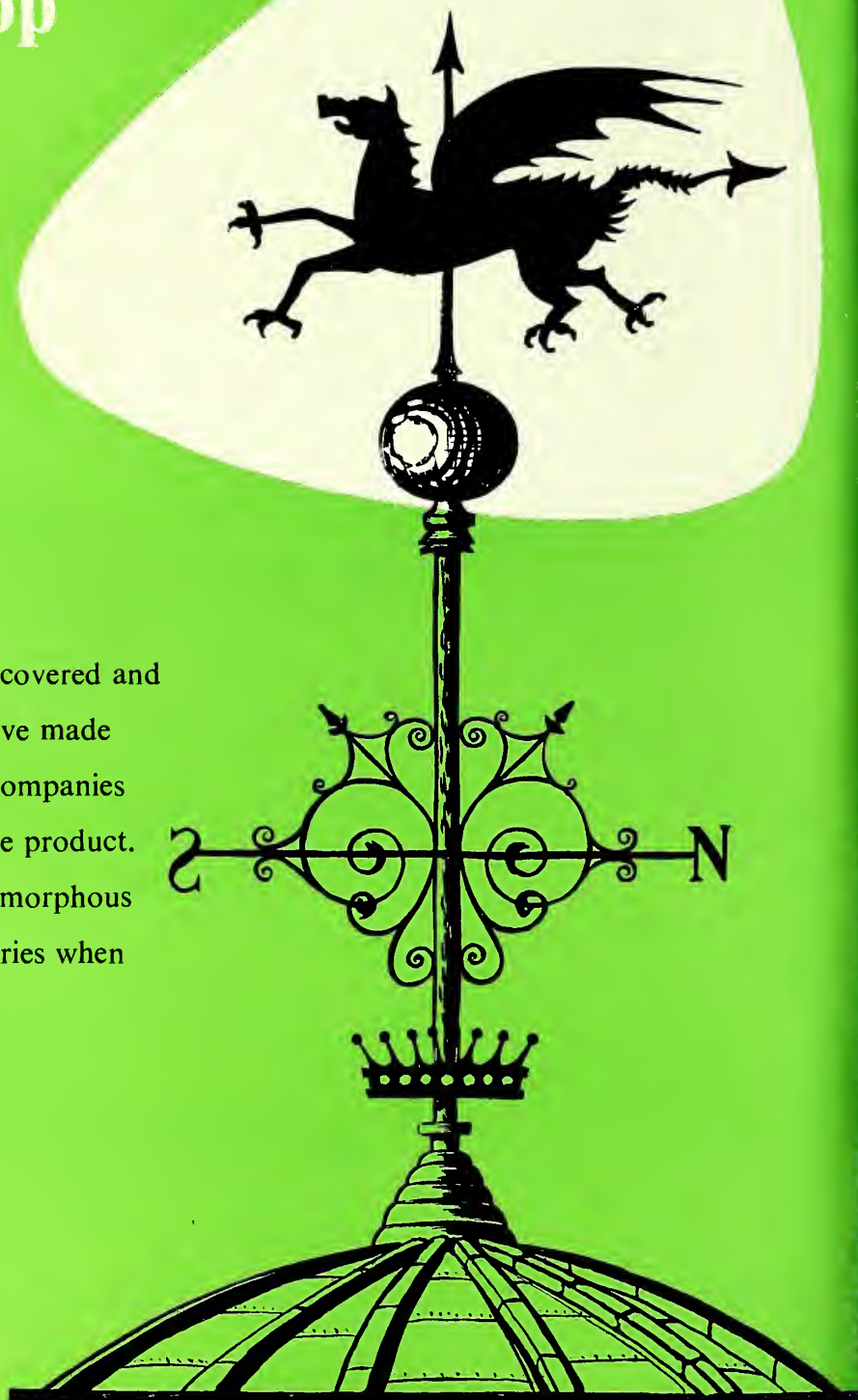
MA6607/100

Right at the top

as leading suppliers of

ALOIN

Smith have a special interest in aloin for it was Dr Thomas Smith who discovered and named it and ever since then they have made increasing quantities. Today many companies insist on the original micro-crystalline product. They know that unlike the cheaper amorphous material it causes no production worries when making pills or tablets.



WEATHER-VANE ON SMITHFIELD CENTRAL MARKET, LONDON

T & H SMITH LTD BLANDFIELD WORKS EDINBURGH

A BRITISH COMPANY ESTABLISHED IN EDINBURGH IN 1827

New Year

SUPER

Rexall

PLENAMINS

The **ALL-IN-ONE** multi-vitamin and mineral tablet
10 vitamins * 9 minerals * liver concentrate

New Deal



43!- EXTRA PROFIT FOR YOU

(6 x 5/6d size free, plus 10% discount)

on each of these **SUPER PLENAMINS** parcels

PARCEL "A"

24 x 5/6
12 x 9/6
3 x 17/-

PARCEL "B"

24 x 5/6
6 x 9/6
6 x 17/-

PARCEL "C"

36 x 5/6
12 x 9/6

Super Plenamins packs

15 DAYS' SUPPLY—
5/6 retail
30 DAYS' SUPPLY—
9/6 retail
60 DAYS' SUPPLY—
17/- retail
FAMILY PACK—
(180 days' supply)
42/- retail

*OVER £7
PROFIT PER PARCEL!*

NEW "FAMILY PACK!"

RETAIL PRICE **42!-**

YOUR PROFIT **14!-**

1 x 5/6 FREE WITH EACH
FAMILY PACK

ORDER RIGHT AWAY -

DELIVERY RIGHT AWAY -

PROFIT RIGHT AWAY!

Rexall Drug Company Limited, Loughborough, England

SUNCRUSH

and

KIA-ORA

are now

REDUCED IN PRICE!

Start the New Year by taking advantage of this great opportunity

Look at these new prices for the retail trade !

SUNCRUSH & KIA-ORA

CASES	1 DOZ. LARGE BOTTLES
1 - 2	29/-
3 - 5	28/6
6 - 11	28/3
12 - 29	27/9
30 cases and over	27/6

REPUBLIC OF IRELAND

**Change in distribution arrangements for
Medical products of Carnegies of Welwyn Ltd.**

As from 1st January, 1960,
the following products of
CARNEGIES OF WELWYN LTD.,
will be marketed
in the Republic of Ireland by
RIKER LABORATORIES LTD.,
through their sole distributors,
FASSETT & JOHNSON (IRELAND) LTD.,
6/7 CROW STREET, DUBLIN.

ASTHMA 23-D

RHOMEX

CHRYSOCREME

VANDID

RIKER LABORATORIES LIMITED

MORLEY STREET

LOUGHBOROUGH LEICESTERSHIRE

RIKER

INDEX TO ADVERTISERS

Allen, Stafford, & Sons, Ltd.	19	Dixor, Ltd.	54
Ashwood Timber Industries, Ltd.	44	Dr. Wernets	40
Askit, Ltd.	42	Duncan, Flockhart & Co., Ltd.	48
Bayer Products, Ltd.	24	Evan Williams, Ltd.	12, 13
Beatson, Clark & Co., Ltd.	47	F.A.I.R. Laboratories, Ltd.	51
Bickiepegs, Ltd.	10	Falconcraft, Ltd.	44
Blythe, William, & Co., Ltd.	42	Fletcher & Farlow, Ltd.	44
Bowater Scott Corporation, Ltd.	Cover iii	Fryer & Co. (Nelson), Ltd.	44
British Drug Houses, Ltd., The	28	George, Ernest J., & Co.	Classified Section
Brook, Parker & Co., Ltd.	Classified Section	Granose Foods, Ltd.	46
Burroughs Wellcome & Co. (Trillets)	7	Groves, O. R., Ltd.	14
Calfos, Ltd.	33	Halex, Ltd.	22, 23
Calmic, Ltd.	Interleaved Edit., 48	Hamburger, M., & Sons, Ltd.	44
Carnegies of Welwyn, Ltd.	34	Hawker & Co., Ltd.	44
Cartwright, W. B., Ltd.	5	Holloway, E. R., Sales, Ltd.	20, 21
Ciba Laboratories, Ltd.	Interleaved Edit., 47	Hooper, B., & Co., Ltd.	42
Cocker Chemicals	55	Imperial Chemical Industries, Ltd., Pharmaceuticals Division	11, Interleaved Edit., 30, 31
Cosette (Lingerie), Ltd.	34		
Cox, Arthur H., & Co., Ltd.	6		
Dae Health Laboratories, Ltd.	Cover iv		
Dales Pharmaceuticals, Ltd.	48		
Daniel, Richard, & Sons, Ltd.	25		
Distillers Co. (Biochemicals), Ltd.	45		

(continued overleaf)

W. B. CARTWRIGHT OFFER

CETAL

ANALGESIC & ANTIPYRETIC NON-SALICYLATE TABLETS

PRICES: TAX FREE

Bottle Size	Wholesale	Retail
20 Tablets	15/3 per doz.	1/11 ea.
40 Tablets	26/- per doz.	3/3 ea.

SPECIAL BONUS SHOWS 68% PROFIT ON OUTLAY

CETAL Tablets relieve headaches, period pains, migraine, colds and influenza, neuralgia, neuritis, rheumatism and sciatica.

CETAL Tablets are suitable for both adults and children. They are absorbed quickly and act rapidly. Safe for occasional or prolonged treatment.

CETAL Tablets are non-irritating, non constipating and show no adverse cardiac effects.

CETAL Tablets contain 0.5 Gramme Paracetamol.



DISPLAY BOX CONTAINING:

10 Bottles of 20 Tablets; 2 bottles of 40 Tablets

Retail Value..... **25/8**

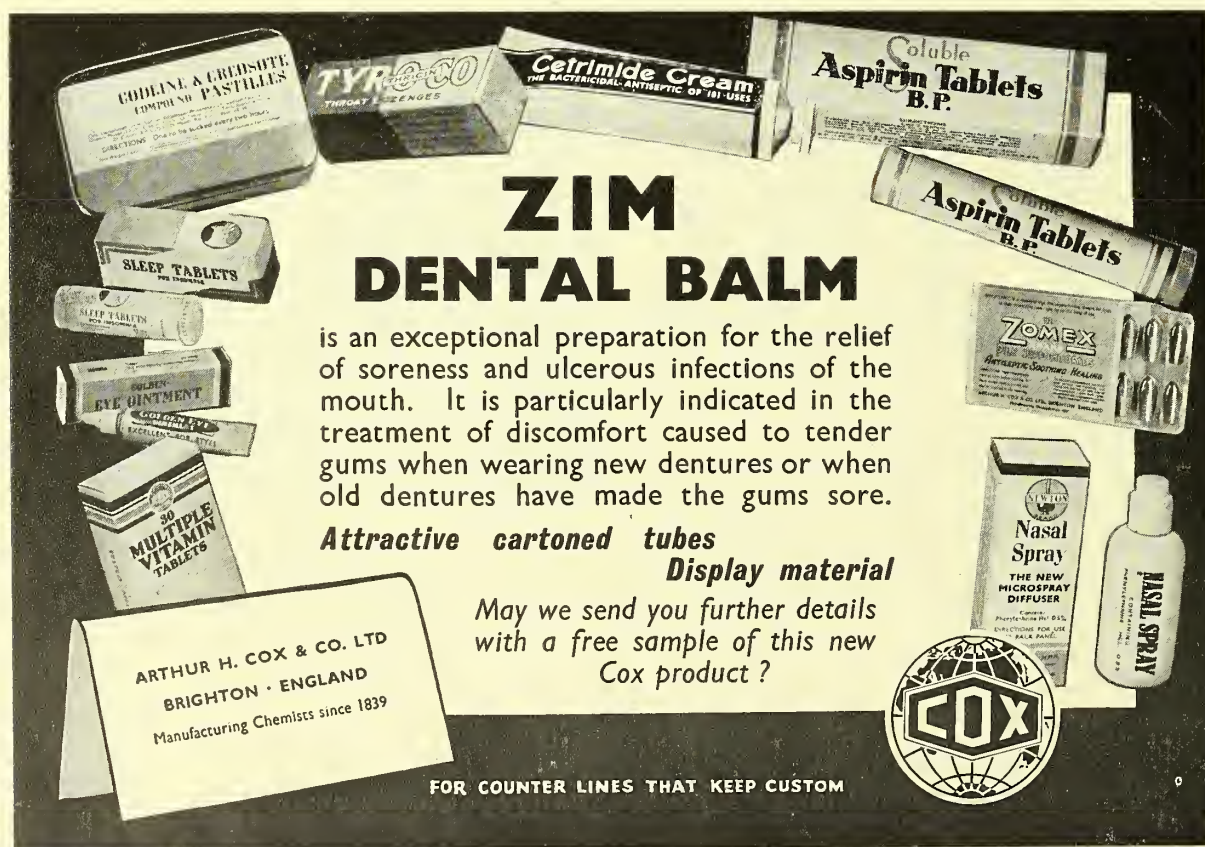
Cost to Chemist..... **15/3**

Profit..... **10/5**

W. B. CARTWRIGHT LTD., Rawdon, Leeds

INDEX (cont.)

Jeffreys, Miller & Co., Ltd.	48	Pharmax, Ltd.	26
Johnsons of Hendon, Ltd.	53	Philips Electrical, Ltd.—Photoflux	25
Kay Brothers, Ltd.	40	Pursers, London (Holborn), Ltd.	18
Kearsley, C. G., Ltd.	44	Rapidol, Ltd.	33
Kodak, Ltd.	46	Rayner & Co., Ltd.	46
Lehmann, Fredk., Co., Ltd.	36	Rexall Drug Co., Ltd.	1, 2
Manesty Machines, Ltd.	49	Riker Laboratories, Ltd.	4
Martindale, Wm. (Wholesale), Ltd.	10	Ronson Products, Ltd.	37, 38, 39
May & Baker, Ltd.	Front Cover	Rose Kia Ora Sales, Ltd.	3
Meggeson & Co., Ltd.	35	Smith, Kline & French Laboratories, Ltd.	43
Newton Chambers, Ltd.	8, 9, 16, 17	Smith, T. & H., Ltd.	Cover ii
Ormerod Engineers, Ltd.	26	Torbet Lactic Oat Co., Ltd.	46
Orridge & Co.	Classified Section	Vacco, Ltd.	15
Pfizer, Ltd. (Harvey Division)	Interleaved Edit., 32	Vitamins, Ltd.	40
Pfizer, Ltd.	Interleaved Edit., 29	Webster, Isaac, & Sons, Ltd.	42
		West Pharmaceutical Co., Ltd.	27
		Wood Bastow Co., Ltd.	41
		Wright, Layman & Umney, Ltd.	28
		Zeal, G. H., Ltd.	36



ZIM DENTAL BALM

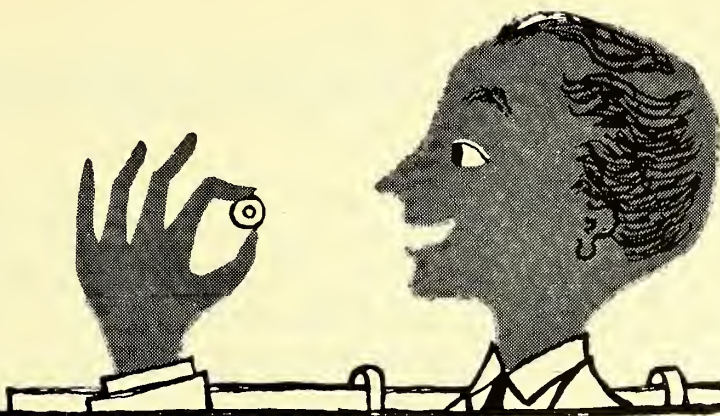
is an exceptional preparation for the relief of soreness and ulcerous infections of the mouth. It is particularly indicated in the treatment of discomfort caused to tender gums when wearing new dentures or when old dentures have made the gums sore.

Attractive cartoned tubes
Display material

May we send you further details with a free sample of this new Cox product?

ARTHUR H. COX & CO. LTD
BRIGHTON · ENGLAND
Manufacturing Chemists since 1839

FOR COUNTER LINES THAT KEEP CUSTOM



Remember
'TRILLETS'



—the throat lozenges with a sialogogue base; this ensures that the contained bactericide, antibiotic and local analgesic are carried swiftly to the sites of infection. The majority of local throat and mouth infections succumb to 'Trillets'.

'Trillets' are safe; they may be taken as often as four times an hour if necessary, and are suitable for children.

a thousand throats will thank you for

'TRILLETS'

TRADE
MARK

(Issued in tubes of 15 lozenges)



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON





NEW SPOT-LIFTER GETS NATION-WIDE TV & PRESS LAUNCH



Launched only last August in the London TV area with heavy TV and press support, K2r Spot-lifter is already a big sales success throughout Greater London. Now K2r is all set for a sweeping sales success on a nation-wide scale. From April onward unprecedented national TV and press advertising will send people into

shops throughout the country for K2r. Don't let *your* customers go elsewhere for K2r. See that you have ample stocks and make full use of the eye-catching counter display material (supplied with every order) to stimulate buying right at the point of sale.

GREAT INTRODUCTORY OFFER!

K2r costs 28s. 0d. a dozen and retails at 3s. 6d. a tube... giving you a clear profit of 33%. One dozen tubes will be sent carriage paid in an attractive sell-out box.

During the introductory offer period all orders will be invoiced at 13 to the dozen giving you a grand total profit of over 40% on return!

STOCK, SHOW AND SELL K2r SPOT-LIFTER





K2r

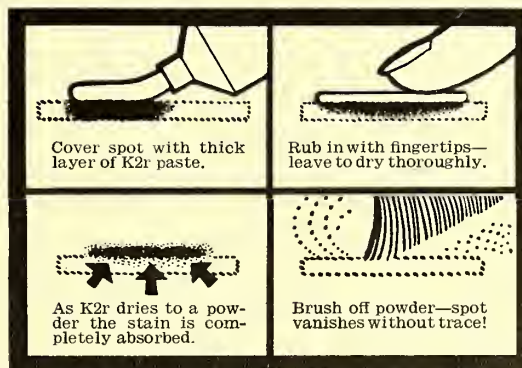


lifts the stain clean out of the cloth

THIS IS HOW K2r WORKS

K2r Spot-lifter leaves no ring—is easy to apply—no bottle to break. K2r removes *more* stains from *more* fabrics than any other cleaner on sale today. It's the easiest way *ever* to keep clothes spotlessly smart.

K2r
An **IZAL** Product



A Comprehensive WHOLESALE SERVICE of Ethicals, Patents & Sundries

*... is available from
these Warehouses*

- ★ MARTINDALES
14-16 BRUTON PLACE, LONDON, W.1.
Telephone:- Mayfair 7811
- ★ ARMSTRONGS OF CAMBRIDGE
COLDHAMS LANE, CAMBRIDGE
Telephone:- Cambridge 55255
- ★ MARTINDALES, IMBERHORNE LANE,
EAST GRINSTEAD, SUSSEX
Telephone:- East Grinstead 4261
- ★ SMITH & SONS (NORWICH) LTD.
44 & 48 MAGDALEN ST., NORWICH
Telephone:- Norwich 26112



daily deliveries

**MARTINDALES
WHOLESALE
DISTRIBUTORS**



The pack retails at 7d. Hygienically sealed, and packed in 3 doz. outers, supplies are obtainable from sole distributors, May, Roberts & Co. Ltd., London, N.16.

*... in the
New Handy Pack!*

These rusks are specially made for when the first teeth appear. Chu-Chus will help the proper development of the tiny teeth and assist in hardening the gums. Ingredients: Wheaten Flour, Malt, Yeast and Salt.

chu-chu rusks

MADE IN ENGLAND BY BICKIEPEGS LTD., NURSERY FOOD SPECIALISTS, WELWYN GARDEN CITY, HERTS.



Pioneers in Penicillin

The new prices current from August 1st, 1959

The 'ICIPEN' V and 'PENAVALON' V range of Penicillin V preparations—the most efficient oral penicillin

'ICIPEN' V tablets

TRADE PRICE

300 mg. (0.5 m.u.)

Containers of 12	11/10d. each
Containers of 100	86/- each
Containers of 500	412/6d. each

'ICIPEN' V Suspension

150 mg. (0.25 m.u.) penicillin V per teaspoonful of prepared suspension.

Containers of 1 fl. oz. (when dispensed)	8/- each
Containers of 2 fl. oz. (when dispensed)	14/2d. each

'PENAVALON' V tablets

TRADE PRICE

Penicillin V potassium salt

Scored tablets (a) 125 mg. (as potassium salt)

Containers of 12	5/4d. each
Containers of 100	36/6d. each
Containers of 500	172/6d. each
Containers of 1,000	344/- each

Scored tablets (b) 250 mg. (as potassium salt)

Containers of 100	72/- each
Containers of 500	343/- each
Containers of 1,000	666/8d. each

'SULMEZIL' V—for combined penicillin and sulphonamide therapy

'SULMEZIL' V tablets

TRADE PRICE

Each tablet contains 0.5 gramme 'Sulphamezathine' (sulphadimidine B.P.) and 60 mg. penicillin V as calcium salt.

Containers of 25	7/6d. each
Containers of 100	25/6d. each
Containers of 500	116/- each

'SULMEZIL' V suspension

TRADE PRICE

Each teaspoonful (3.5 ml.) of prepared suspension is equivalent to one 'Sulmezil' V tablet.

Bottles of 2 fl. oz.	8/- each
----------------------------	----------

IMPERIAL CHEMICAL INDUSTRIES LIMITED Pharmaceuticals Division Wilmslow Cheshire

Dispatch
EXPRESS
 vs Chronicle
 Woman's
Journal
 THE PEOPLE
 WOMAN'S DAY
 SUNDAY
PICTORIAL
 NEWS OF THE WORLD
 woman's own
Mirror
 SKETCH
Graphic



WOMAN
 and
 beauty

HOME

WOMAN'S
REALM

Vogue
 BEAUTY
 Book

VOGUE

woman's mirror

Woman

Woman's
 ILLUSTRATED



HEAVIEST CAMPAIGN EVER!

**20 MILLION WOMEN SEE EVAN WILLIAMS
ADVERTISING. FABULOUS SIX-MONTH
DRIVE REACHES THEM **3** TIMES A WEEK
ON **6** TELEVISION NETWORKS! IN **10** MASS-
CIRCULATION NATIONAL NEWSPAPERS! IN
16 WOMEN'S JOURNALS—**5** LEADING WEEKLIES
AND **11** HIGH-CIRCULATION MONTHLIES!
GIVING A TOTAL NUMBER OF APPEARANCES OF
1,537,505,000**

Evan Williams offer you fabulous money-spinners, each one perfectly formulated by highly experienced research chemists and backed by Evan Williams' half-a-century of specialist experience in the manufacture of beauty aids. Here's the money making opportunity of a life-time—the fastest selling lines ever—at really substantial profit margins.

**SEE OUR REPRESENTATIVE FOR
DETAILS OF ATTRACTIVE BONUS OFFERS**

Evan Williams

**THREE WEEKS TO GO
BEFORE NEW SPARKLING
READY-TO-DRINK
CITROZE
HITS LONDON**



Only new Sparkling Citroze is made from pure glucose for energy and whole fresh lemon for appetite. A 'Double-Action' help to recovery!

Massive TV advertising starts Jan. 31st.
Up to five 30-sec. spots weekly through
Feb. and March on London TV.

Advantageous trade terms. No bottle charge. 5/6 per
doz. profit at a retail price of 2/3 per bottle.
Orders can be combined to obtain
quantity discounts for Sunfresh.

Place your orders now for



NEW "DOUBLE ACTION"
SPARKLING CITROZE
REGD. TRADE MARK

GLUCOSE FOR ENERGY—LEMON FOR APPETITE!

YOUR SALES are the EVIDENCE—

MORE and MORE Flask Users
are changing to



Yes, really important changes have taken place in the vacuum flask trade. The Vacco "Screw-on" closure stands out as a revolutionary development. Much thought and research preceded its introduction; today its unique design is proved in use by the million. Add to this the other Vacco features, styling and presentation, and it is not surprising that public and trade alike have so readily taken to the Vacco "Screw-on" range.

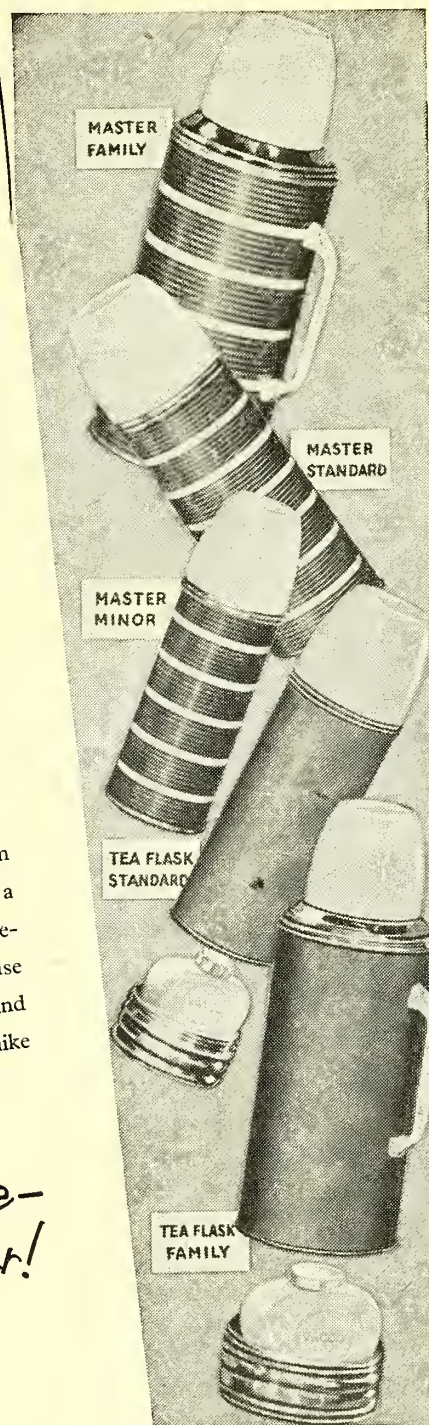
*Sell Vacco with confidence—
—There is no better!*



GUARANTEED BY THE
GOOD HOUSEKEEPING INSTITUTE



SELECTED BY THE
COUNCIL OF INDUSTRIAL DESIGN



NOTE: PATENT PROTECTION!

Features relating to Screw-type Closures are covered by granted patents and pending patents throughout the world.

First ever **LANOLISED**
toilet tissue is



IZAL *Soft*

IZAL do it again!

NEW IZAL *Soft* **LANOLISED**

is the first-ever lanolised luxury toilet tissue—*lanolised for extra comfort!*

NEW IZAL *Soft* **LANOLISED**

is exclusive—*no other toilet tissue has this great lanolised sales plus.*

NEW IZAL *Soft* **LANOLISED**

is a luxury twin-tissue which comes in five pastel shades of pink, blue, green, yellow and snowy white—packed in exclusive **new 2-dozen display cases** for convenient stocking.

NEW IZAL *Soft* **LANOLISED**

will get full advertising support with *large spaces in the national dailies and women's weekly magazines.*

NEW IZAL *Soft* **LANOLISED**

is destined to become another big Izal *sales success.*

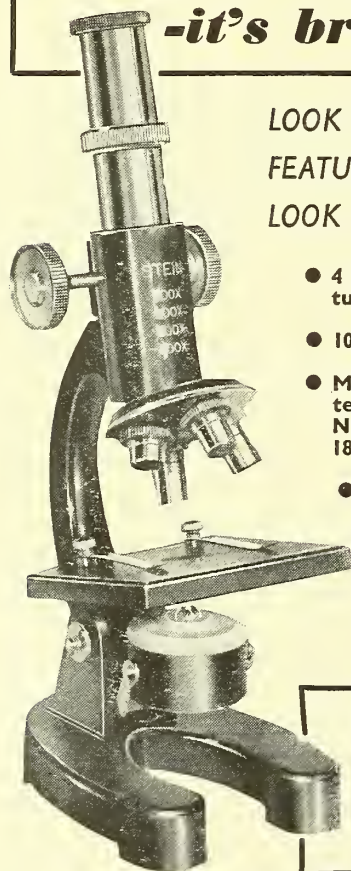
NEW IZAL *Soft* **LANOLISED**

should be on *your counter, in your windows and on your shelves.*

You know you can trust **IZAL** *Soft* Retail Price 1/3d

And now, the new
"STEIN"
SELF-ILLUMINATING
MICROSCOPE

-it's brilliant!



LOOK AT THESE
 FEATURES, THEN
 LOOK AT THE PRICE

- 4 objectives on rotating turret
- 100x, 200x, 300x, 400x
- Magnifications guaranteed in accordance with N.P.L. report F. 1626 of 18.8.59
- Reversible automatic light and mirror assembly
- 2 U.I.2 cells in base
- Fitted wooden case and 3 slides

RETAIL PRICE
 COMPLETE

£6.12.6

with batteries, bulb
 and case

A new "Stein" Microscope with the features of a professionally styled instrument plus the most ingenious illuminating method ever. Turn the mirror reflector over, and the fitted bulb lights automatically to spot-light the specimen being studied. With two standard batteries within the base, fitted wooden case and 3 plain slides this sales-compelling and very efficient microscope is going to make first-class business the year round.

Please order now for early February delivery. January quota sold.

- Full trade discounts
- Enquiries from wholesale houses invited
- Leaflets and display cards available

PURSER'S LONDON (HOLBORN)
LTD
 12, FULWOOD PLACE, LONDON, W.C.1
 Telephone: HOLborn 5268

With
PURSER'S
POSTAL SUNGLASS
SERVICE

you get

- ★ 3 COMPLETELY EXCLUSIVE STYLES
 BY LEADING AUSTRIAN DESIGNER
- ★ PICK OF THE PACKS BY BARNET,
 BARTEX, JAMESON, POLAROID,
 WHITECROSS
- ★ DEPENDABLE VOUCHER REPAIR
 SERVICE
- ★ GENEROUS DISCOUNTS

ORDER COUPON BRINGS SAMPLES ON
 APPROVAL WITHIN YOUR PRICE
 REQUIREMENTS. THEN ORDER AT YOUR
 CONVENIENCE FOR FIRM FORWARD DELIVERY

TO PURSER'S LONDON (HOLBORN) LTD.,
 12 FULWOOD PLACE, LONDON W.C.1.

Please send 1960 sample range of sunglasses on approval, in following price ranges.

Top Quality Medium Price Popular price'
 (Mark off as required)

ALSO DETAILS OF MICROSCOPE Mark with X if required

YOUR GALENICAL SUPPLIES



As one of the largest manufacturers of galenicals in Gt. Britain StaffordAllenS are supplying increasing quantities to wholesalers and manufacturers. Now all lines are offered packed and it remains the policy of the Company to supply only wholesalers and manufacturers. StaffordAllenS maintain substantial stocks and prompt delivery is always assured.

*Liquid Extracts,
Tinctures,*

*Emulsions,
Infusions,*

*Liquors,
Syrups,*

*Decoctions,
Elixirs etc.*

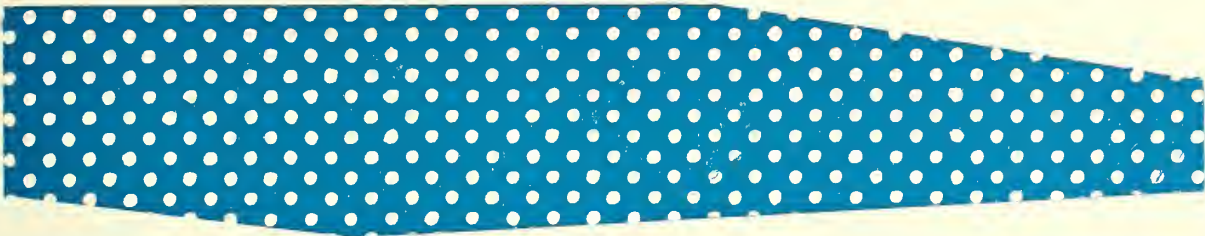
STAFFORD ALLEN & SONS LTD
Wharf Road, London, N.1
Tel: CL Erkenwell 1000
Grams: Stafalens, Nordo, London



StaffordAllenS

SOME CABINETS FROM THE NEW BARNET COMB RANGE





BARNET COMBS

**no, there's no better way to
sell combs than from these
new Barnett**

quick-sale cabinets . . .

simply, conveniently,

profitably  *and refill them again and again for extra profit*

FREE BONUS

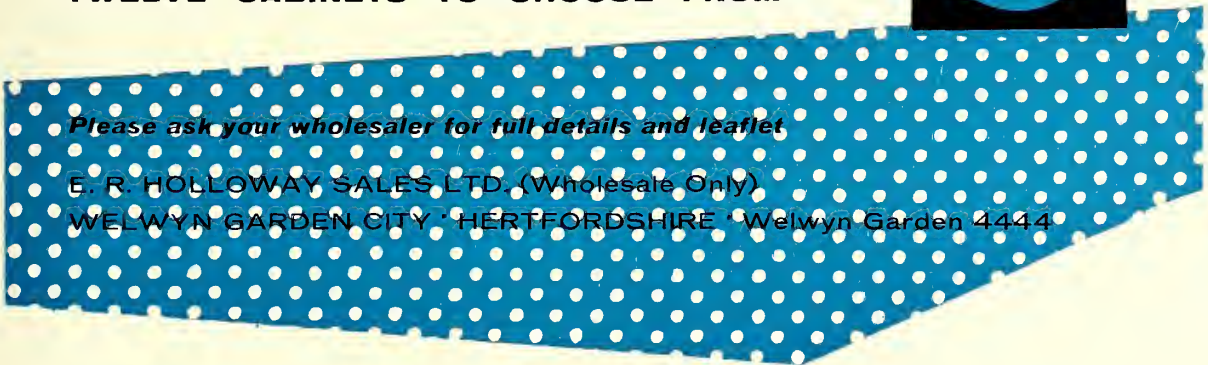
on all orders for delivery before

FEBRUARY 15TH, 1960

6 Free combs with every large cabinet.

3 Free combs with every small cabinet.

TWELVE CABINETS TO CHOOSE FROM



Please ask your wholesaler for full details and leaflet

E. R. HOLLOWAY SALES LTD. (Wholesale Only)

WELWYN GARDEN CITY • HERTFORDSHIRE • Welwyn Garden 4444

"Rise and shine" with **HALEX!**

Exciting new 'Personal Choice' bonus on combs and toothbrushes

Valid until March 31st, 1960

On combined orders of 1 gross of toothbrushes and 1 gross of combs—

EITHER

15 toothbrushes to
the dozen

5% discount on
combs plus

5% extra discount on
the total order

OR

Retail Value
67/6



**A BEX-BISSELL
SHAMPOO MASTER**

Here's your chance to own the exciting Shampoo Master, the new way to shampoo carpets that's as easy to use as a carpet sweeper. Wipe on the foaming shampoo with the special applicator, then brush or vacuum the dirt away—that's all. No more wearisome stooping or scrubbing... no messy suds to rinse away. A bottle of Carpet Shampoo (enough to clean a 112 sq. ft. of carpet), comes free with each applicator.

On combined orders of 6 dozen toothbrushes and 6 dozen combs—

EITHER

14 toothbrushes to
the dozen and

5% discount on
combs

OR

Retail Value
19/11



**A BEX-BISSELL UPHOL-
STERY SHAMPOO KIT**

Like the Shampoo Master, the Bex-Bissell Upholstery Cleaner has a sponge-brush head that controls the cleansing foam, gently eases out the grime. When dry, just brush or vacuum. Without soaking, scrubbing or rinsing, fabric, leather and plastic upholstery looks like new again. A bottle of Upholstery Shampoo (enough to clean a three-piece suite) comes free with each applicator.

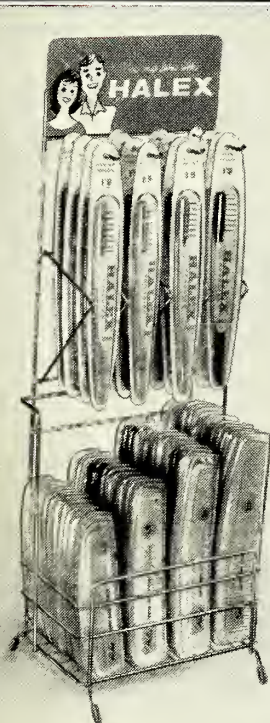
PLUS GENEROUS BONUSES ON ALL OTHER ORDERS —

On toothbrushes	15 to the dozen on orders of 1 gross 14 to the dozen on orders of 6 dozen 13 to the dozen on orders of 3 dozen	On combs	5% discount on all comb orders
-----------------	--	----------	-----------------------------------

HALEX OFFER YOU

- * New exciting bonuses including the "special personal choice" offer
- * Complete freedom of choice *You* decide exactly what patterns you want
- * Individually priced products The retail price is clearly marked on every comb and toothbrush in the wide Halex range
- * New free dispensers designed for maximum counter sales.

Here are some of them.



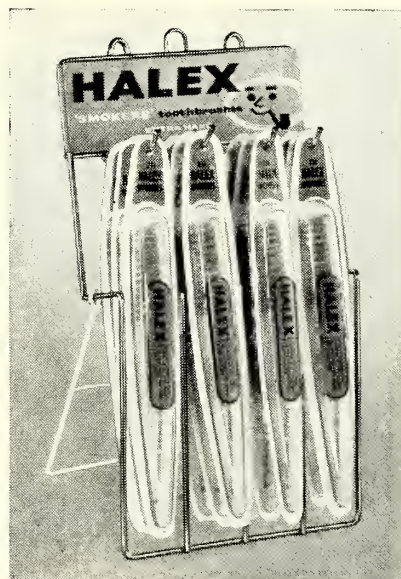
6 dozen Comb Dispenser Unit
C.670 Assorted Nylon
C.680 Assorted Acetate
C.690 Assorted Imprene

Combined Comb and Toothbrush Dispenser

- A.640 4 dozen Assorted Nylon and Bristle toothbrushes
6 dozen Assorted Nylon combs
A.641 4 dozen Assorted Nylon and Bristle toothbrushes
6 dozen Assorted Acetate combs



Wide selection of
combs on cards



3 dozen Toothbrush Dispenser Unit
A.622 'Popular' Nylon
A.636 Assorted Nylon
A.637 Assorted Bristle

1 dozen Toothbrush Dispenser
A.632 2 dozen 'Smokers' Unit
Extra Hard Texture

- * For your bonus in brushes and discount, contact your usual wholesaler
- * For your bonus in Bex-Bissell products, contact

HALEX, Highams Park, London E.4

AND NOW

Halex Imprene
range of combs in

**NEW SUPER
IMPRENE**



This 'stuffy nose' sufferer couldn't breathe, smell or taste — life had lost its savour. But Neophryn with antihistamine' has lifted him out of all that. There will be many more like him this winter who will obtain welcome relief with 'Neophryn with antihistamine' — and now's the time to make sure your stocks are adequate.

There goes another satisfied customer!

Why with antihistamine?

The antihistamine in 'Neophryn with antihistamine' counters the allergic factor which has been shown to be present in many cases of the common cold. It also enhances the decongestant action of Neophryn and, by its mild local anaesthetic properties, soothes irritation of the nasal mucosa.

'Neophryn' is a registered trade mark.

BAYER PRODUCTS LTD Kingston-upon-Thames · Surrey

Associated Exporting Co: **WINTHROP PRODUCTS LTD**



Richard Daniel & Son LTD

for

PACKED GOODS

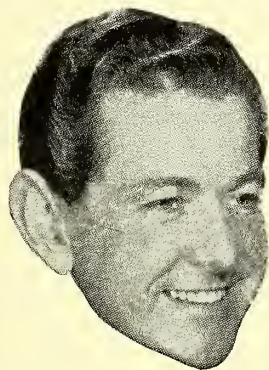
*Attractively labelled
and presented*

PRICE LIST ON APPLICATION

**Mansfield Road
Derby** Tel: 40671 (10 lines)

also at

Ashton-u-Lyne Tel: 5161 (9 lines)



*"NOW I stock only 3 types of
flashbulb — the NEW*

PHILIPS 'PHOTOFLUX' CAPLESS RANGE"

Your flashbulb sales can now be covered by just three types of 'Photoflux' flashbulbs; the PF1, the new brighter PF1/97 for colour work, and the new small Zirconium-filled PF5. And each type comes in the new handy packs of 5—a great new opportunity for multiple sales! PF1: 3/4 pkt. PF1/97: 3/9 pkt. PF5: 5/- pkt.

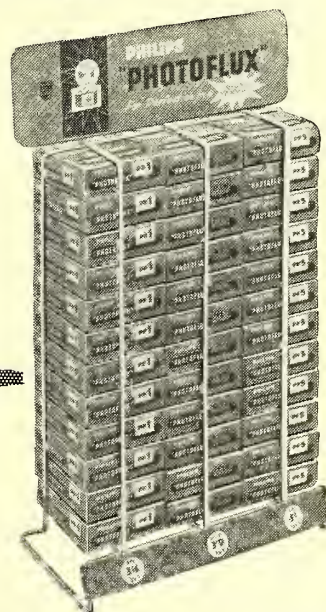


Philips Electrical Limited
Century House
Shaftesbury Ave. London WC2

FREE!

This compact metal dispenser is free when you purchase the contents: one dozen packs of each of the 3 types of 'Photoflux' flashbulbs.

(PF1. Made in Great Britain)
(PF1/97 & PF5. Made in Holland)



(PF3191)

MILLIONS MORE get the TV Message

That is why
Diuramil brings
TOP PROFITS for a Good Display

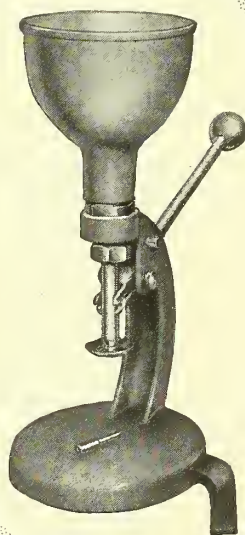
Nothing is more convincing than SALES—and you, too, should share these profits. Through real life Television with actual sufferers telling their own true stories of rheumatic relief, the name 'DIUROMIL' is known to millions more. Customers now look for the blue DIUROMIL carton with the red seal. They know the name, they know the price, they know what DIUROMIL can do.

**STOCK UP
 WITH
 CONFIDENCE**



NEW nation-wide
DIUROMIL
TV CAMPAIGN
STARTING NOW
FOR 1960

Display DIUROMIL—material available from:—
 PHARMAX LTD., WESTERN HOUSE
 GRAVEL HILL, BEXLEYHEATH, KENT



**profits up...
 ...costs down**

Here is your chance to make
 up your own products by using the

**QP LABORATORY
 EMULSIFIER**

Strong and well designed this emulsifier
 will pay for itself many
 times over

PRICE **£8.12.6d.**

5% discount for cash with order,

ORMEROD ENGINEERS LTD.

HOLLOWES WORKS SHAWCLOUGH, ROCHDALE phone: Rochdale 49321 grams: Homogeniser Rochdale

cremalgin

rubefacient
cream

1 oz. tubes trade price 21/- doz. *Plus P.T.*
retail price 3/1 each
1 lb. jars trade price 19/6 each *Plus P.T.*

PARABAL

detoxicated
phenobarbitone—
Schedule IV

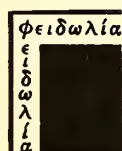
Bottles 100 tablets
trade price 5/6 each *Plus P.T.*
Bottles 500 tablets
trade price 22/6 each *Plus P.T.*

TABALGIN

0.5 g. paracetamol
analgesic tablets

Bottles 100 tablets
trade price 75/- doz.
Bottles 500 tablets
trade price 333/- doz.

WEST PHARMACEUTICAL CO. LTD



9 Palmeira Mansions
Church Road
Hove 3 Sussex
Telephone Hove 70608



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 173

January 9, 1960

No. 4169

CONTENTS

C. & D. Dispensing Price List	52
Exhibitions and Fairs in 1960	30
I.P.S.F.	45

Leading Articles:

Late but Worth Waiting For	39
Hopes and Fears for 1960	39
Wages by Cheque	40
Manufacturers' Activities	38
Medical Mission Pharmacists	36
New Books	44
New Year Honours	28
Onward from Galen	44
Pharmacies of Britain	37
Plymouth Branch Dinner (cartoon)	35
Royal Warrant Holders	30

THE DRUG AND THE ROUTE:

1. The Rectal Route	41
Topical Reflections	29

100 Years Ago	40	New Products	33
Branch Events	28	Overseas Visits	32
Business Changes	32	Patents	46
Coming Events	51	Personalities	31
Commercial Television	51	Price Changes	52
Company News	32	Print and Publicity	52
Correspondence	38	Recent Research	45
Deaths	31	Trade Marks	46
Expansion Plans	51	Trade Notes	34
Marriages	31	Trade Report	49
Medical Abstracts	45	World Trade	51

INDEX TO ADVERTISERS, Pp. 5 & 6.

Classified Advertisements, p. 56.

PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD.,
at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

WOLVERHAMPTON: 89 Woodland Avenue, Tettenhall Wood.
GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679.
LEEDS: 16: 32 Wynford Rise, West Park. Phone: Leeds 67 8438.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and
Year Book, £2 10s. Single copies one shilling each.



Obtainable from all
wholesalers, or direct from

**WRIGHT LAYMAN
& UMNEY LTD.,**

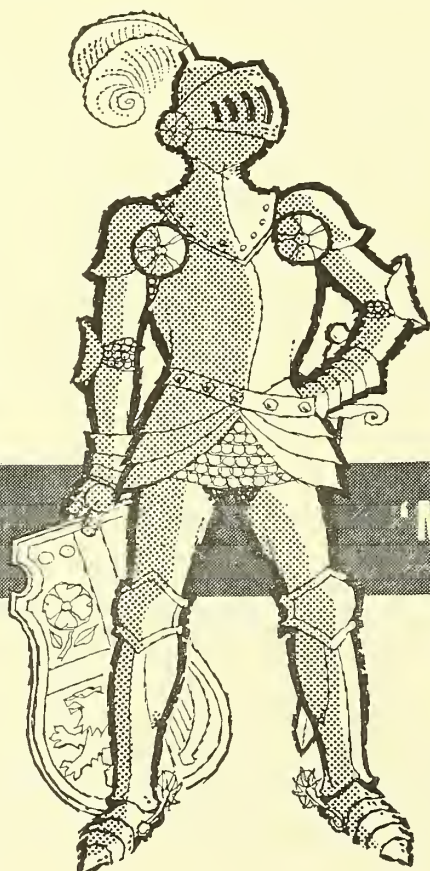
Southwark Street,
London, S.E.1.

WRIGHT'S Coal Tar Inhaler and Vaporizer

Complies with the specifications set out in part IV
of the N.H.S. Drug Tariff.

- Complete with standard size bottle of Vaporizing Liquid, and six night lights.
- Vaporizing Liquid Refills.
- Spare absorbent blocks.

*The Vaporizing Liquid cannot spill if the apparatus is
accidentally knocked over while in use.*



No chinks in the armour

When winter's efforts concentrate on attacking the stoutest constitutions, there are thousands who regard vitamin supplementation as vital protection. 'Multivite' and 'Radio-Malt' are trusty weapons.

'MULTIVITE' 'RADIO-MALT'

TRADE MARK

TRADE MARK

Popular choice for vitamin supplementation. Vitamins A, B₁, C and D₂, in full potency in a palatable chocolate coating.

Bottles of:	TRADE	RETAIL
50 pellets ...	2/4	3/6
500 pellets ...	14/6	21/9
1000 pellets ...	27/6	—

Bonus terms on application.

For radiant health. Delicious, toffee-flavoured, so popular with children.

	TRADE	RETAIL
1-lb. jars ...	2/5½	3/6
2-lb. jars ...	4/4	6/3

Special winter bonus terms for bulk orders.

THE BRITISH DRUG HOUSES LTD. LONDON N.1



The CHEMIST AND DRUGGIST

Volume 173

JANUARY 9, 1960

No. 4169

New Dangerous Drugs

SIX COMPOUNDS SUBJECTED TO CONTROL

UNDER the Dangerous Drugs Act, 1951 (Application) Order, 1959 (H.M. Stationery Office, price threepence) which came into operation on January 1, six additional compounds were brought within the provisions of the Dangerous Drugs Act, 1951, and the Regulations made thereunder.

The listed substances are:—Benzethidine (ethyl 1(2-benzoyloxyethyl)-4-phenylpiperidine-4-carboxylate), its salts and any preparation, admixture, extract or other substance containing any proportion of benzethidine;

Dimenoxadole (2-dimethylaminoethyl-2-ethoxy-2:2-diphenylacetate), its salts and any preparation, admixture, extract or other substance containing any proportion of dimenoxadole;

Furethidine (ethyl 1(2-tetrahydrofuryloxyethyl)-4-phenylpiperidine-4-carboxylate), its salts and any preparation, admixture, extract or other substance containing any proportion of furethidine;

Norcodeine, its salts and any preparation, admixture, extract or other substance containing any proportion of norcodeine;

Normorphine, its salts and any preparation, admixture, extract or other substance containing any proportion of normorphine;

Phenazocine (21-hydroxy-5:9-dimethyl-2-(2-phenylethyl)-6:7-benzomorphinan, NIH 7519), its salts and any preparation, admixture, extract or other substance containing any proportion of 21-hydroxy-5:9-dimethyl-2-(2-phenylethyl)-6:7-benzomorphinan.

Benzethidine and furethidine have been manufactured by J. F. Macfarlan & Co., Ltd., Edinburgh, and clinical trials are in progress. Phenazocine is manufactured in bulk by Huffer & Smith, Ltd., New Era Works, Purley Way, Croydon, Surrey. Clinical trials of the product are being arranged by Smith & Nephew (Pharmaceuticals), Ltd. Also on January 1 there took effect the Dangerous Drugs Act, 1951 (Relaxation) Order, 1959 (H.M. Stationery Office, price twopence), which removed from norcodeine and normorphine the prohibitions on manufacture and trade imposed under the 1951 Act.

Agricultural Poisons

A COMPOUND TO BE CONTROLLED

AN addition to the second schedule, part II, of the Agriculture (Poisonous Substances) Regulations is likely, following the recommendation by the advisory committee on poisonous substances in agriculture and food storage,

that Endothal (disodium 7-oxabicyclo (2, 2, 1) heptane-2, 3 dicarboxylate) should be so controlled. The Ministry of Agriculture, Fisheries and Food recommends that operators using the compound should wear rubber gloves, rubber boots, face shield and either an overall and rubber apron or a mackintosh when opening a container, or diluting, mixing or transferring Endothal from one container to another or when washing apparatus after use. When spraying ground crops, rubber gloves, rubber boots, overall, hood and either a face shield or a dust mask should be worn. The use of the compound on a non-edible crop is acceptable and, on present information, its use as a pre-emergent weedkiller on sugar beet should present no hazard to consumers. There is insufficient evidence on which to base recommendations for the safe use of the compound on other edible crops.

Pharmaceutical Imports

DOLLAR QUOTA OF £200,000

A QUOTA of £200,000, c.i.f., has been established for imports of pharmaceutical preparations packed ready for retail sale from the dollar area in 1960. That quota supersedes the Token Import quotas for imports of those products from Canada and the United

States. Details of how traders should apply for licences, etc., are given in Notice to Importers No. 927 dated January 2, issued by the Import Licensing Branch of the Board of Trade, Horse Guards Avenue, London, S.W.1. The value of licences issued for all commodities imported under the Token Import Scheme (now discontinued), was about £2.7 millions a year.

Treasury Returns

LESS REVENUE FROM MEDICINES

ALTHOUGH the total revenue from purchase tax received by the Treasury during the year ended March 31, 1959, at £498.4 millions was about £3 millions higher than in the preceding year, the yield from drugs and medicines dropped by £1 million to £11.1 millions. (The tax rate during the year was unchanged at 30 per cent. for drugs.) Perfumery, cosmetics and toilet preparations produced £29.6 millions (against £32.8 millions) and cameras and photographic goods, £3.9 millions (£5.3 millions) but in those classes the tax rates had been reduced from 90 per cent. to 60 per cent. and from 60 per cent. to 30 per cent., respectively, by the Budget in 1958. The fiftieth report of Commissioners of Customs and Excise, recently published (H.M. Stationery Office, 9s. 6d.), from which the above statistics were taken, also estimates the yield of duty from saccharin at £1.3 million (against £1.4 million) of which £99,000 was repaid by way of drawback. Repaid also was £43,000 representing drawback of duty on cocoa used in the manufacture of theobromine. About 650,000 proof gall. of ethyl alcohol were exported as "medical preparations" (against 230,000 gall.) and 18.5 (19.3) million proof gall. were distributed for methylation. Duty paid on glucose totalled £443,000.



GIFTS FOR SPASTICS: The Blandfield Spastic Fund recently presented gifts to the Edinburgh and District Spastic Association. The Blandfield Fund is contributed to by employees of T. & H. Smith, Ltd., and Duncan, Flockhart & Co., Ltd. In the picture are, left to right, Dr. F. R. Smith (a director); Mr. W. R. Lennie, Mr. G. H. Spittal (manager, Holyrood Road Works); and Miss R. Stroyan. On behalf of the Association the gifts are received by Messrs. P. A. Pow (chairman) and J. Pirie (treasurer).

Shortage of Pharmacists

A MANAGEMENT COMMITTEE ACTS

REPRESENTATIONS about the "extreme difficulty" of recruiting qualified staff were made recently to the Ministry of Health by Mansfield, Notts, Hospital Management Committee. "The position is such," states a report issued by the Committee, "that an emergency plan has had to be formulated so that it can be operated immediately in the event of any further diminution of qualified pharmaceutical staff, due to illness or other reasons." The situation, it points out, "appears to be country-wide."

Examination Results

INTERMEDIATE PASSES

THE following candidates satisfied the examiners in the Intermediate examination held by the Pharmaceutical Society in England and Wales in December 1959:—

ASTON, Christine M., Burton-on-Trent; BAKER, Wendy R., Heswell; BALKWILL, A. H., Caerphilly; BRASS, Edythe J., Leeds; CHADWICK, Elizabeth, Liverpool; COLLINS, M. S., Leeds; CULLEN, Elizabeth, Liverpool; CURTIS, M. R., Sturminster Newton; DAVIES, M. I., Swansea; EWING, W. M., Manchester; GARBUTT, P. D., Stratford; HILTON, A. J., Coventry; HUGHES, Margaret E., Bow-Street (Cards); IRESON, Marguerite V., Peterborough; ISHAG, E. D., Brighton; MAY, C. E. S., Neyland; MILLER, D. J., Swansea; ORTON, Joan Y., Wolverhampton; OSUNSEDO, E. O., Wandsworth; PARKS, N. J., Bolton; PLACE, Anne C., Barnsley; SCOTT, Joyce E., Buntingford; SNOW, B. G., Brislington; TAYLOR, D. L., Bristol; WATSON, K., Sheffield; WHITE, Janet M., Birmingham; WILSON, M. H., Leicester; WORRALL, L. E., Birmingham; WORRALL, Mavis, Leeds.

The following candidates were successful in the similar examinations held in Scotland in December 1959:—

AINSWORTH, R. R., St. Saviours; BUNTON, J., Galston; CARR, W. A., Sheffield; DEAN, Valerie, Stockton-on-Tees; EDMONDSON, Eileen E., Middlesbrough; HOGGETT, K., Sunderland; LAYCOCK, A., Halifax; MOTALA, Y. M., North Ealing; MURPHY, L., Coatbridge; SMITH, Moira K., Cleland; TODD, Brenda, Seaham; WINSHIP, A., Gateshead; WOOD, Dorothy J., Ackham.

Commercial Travellers

BENEVOLENT INTERESTS MERGED

THE 110th annual court of governors of the Commercial Travellers' Benevolent Institution, held on December 28, 1959, was momentous in that it recorded the proposed merger with the London Commercial Travellers' Benevolent Society, with new rules formulated and provisionally approved, the removal of the Institution's offices from Old Bailey to the Wax Chandler's Hall and the retirement after twenty-five years' service of its secretary (Mr. J. J. McClellan). Mr. Eric Auger is the new secretary. The annual report recorded that during the year ordinary income had risen under nearly all headings, with a net increase from all sources of £861. Expenditure had been unusually heavy on account of removal, etc. The net amount dispersed in annuities was £264 more than in the previous year. Under the new rules it is proposed to increase the total amount of annuity which, with certain additions, will bring the possible allowance to benefiting members to £4 per week.

A New Journal

PURE AND APPLIED CHEMISTRY

DUE to appear this month is a new official journal of the International Union of Pure and Applied Chemistry: *Pure and Applied Chemistry*. The journal is to appear at irregular intervals as material becomes available and is being published in parts, four parts to a volume of about 600 pages. It will contain lectures or papers read at symposia organised or sponsored by the International Union, reports of its commissions, divisions and committees, and other material. *Pure and Applied Chemistry* is being produced by Butterworths Scientific Publications, 4 Bell Yard, London, W.C.2, England, to whom inquiries should be sent.

IRISH NEWS

THE NORTH

Health Services

SOME GOVERNMENT FIGURES

THE number of prescription forms dispensed in Northern Ireland in 1958 was 4,671,231 compared with 4,638,875 in 1957. That is stated in the Government's recently issued Report on Health and Local Government Administration for the year. The cost of pharmaceutical services, apart from payment for medicine dispensed by some rural doctors, was £2,547,638 gross or, after deduction of charges payable by patients, £2,194,924 net. The average gross cost per prescription was 7s. 5d. compared with 6s. 9d. in 1957. The number of dispensing doctors was seventy-three. The number of persons for whom they prescribed and dispensed fell during the year from 88,845 to 85,009.

NEW YEAR HONOURS

AMONG awards in the New Year Honours list published on January 1 were the following:—

Life Peer.—DR. E. H. J. DALTON (a former President of the Board of Trade and Chancellor of the Exchequer).

Baronets.—MR. J. K. VAUGHAN-MORGAN (Parliamentary Secretary, Ministry of Health, 1957; Minister of State, Board of Trade, 1957-59); SIR JAMES P. ROSS (president, Royal College of Surgeons of England).

Knights Bachelor.—PROFESSOR A. M. CLAYE (president, Royal College of Obstetricians and Gynaecologists); PROFESSOR D. M. DUNLOP (professor of therapeutics and clinical medicine, Edinburgh University, and Privy Council visitor to the Pharmaceutical Society's examinations in Scotland).

Commanders of the Order of the British Empire (C.B.E.).—PROFESSOR S. ALSTEAD (regius professor of materia medica and therapeutics, Glasgow University); MR. A. J. P. MARTIN (for services in the development of chromatographic analysis); PROFESSOR G. L. MONTGOMERY (chairman, Scottish Health Services Council).

Officers of the Order of the British Empire (O.B.E.).—MR. T. A. BRIGGS (chief executive officer, Ministry of Health); MR. J. W. C. FLINT (principal inspector, Board of Customs and Excise); MR. P. G. HORSLER (superintending inspector of factories, Ministry of Labour); DR. J. A. McVICKER (a member, Northern Ireland General Health Services Board); MR. E. T. WILKINS (principal scientific officer, Department of Scientific and Industrial Research); MISS S. D. WINGATE (principal, Board of Trade); MR. F. R. WINN (chief executive officer, Board of Customs and Excise).

Members of the Order of the British Empire (M.B.E.).—MR. H. W. ATKINSON (senior executive officer, National Physical Laboratory, D.S.I.R.); MR. W. G. HANDLEY and MR. P. M. PENNYFATHER (senior executive officers, Board of Trade); MR. J. H. W. SIMMONS (senior principal scientist, Atomic Energy Research Establishment); MISS W. M. SPRINGFORD (principal secretary to the chairman of Imperial Chemical Industries, Ltd.); MR. C. G. WEAVER (chief executive officer, Department of Health for Scotland).

BRANCH EVENTS

STOCKPORT

Heredity

ON December 7, 1959, the Stockport Branch of the Pharmaceutical Society was addressed by MISS M. JEPSON, M.Sc., on the subject of heredity. By means of a number of well-prepared diagrams, Miss Jepson sketched the process of cell division and the migration of the definite number of chromosomes in ordinary mitosis and in the formation of sex cells, the body having the specialised X and Y sex chromosomes in addition to the autosomes. A concise and clear outline of the process of segregation as deduced by Mendel was given together with the factors which showed that sex was determined at conception and that both male and female were equally responsible. The two sexes were of equal importance in heredity and each characteristic determined by the action of heredity units named genes were derived respectively from the two parents. The theories of sex linkage were demonstrated by the observations made on the breeding of red and white eyed banana flies (*Drosophila melanaster*). Miss Jepson finally showed how mental deficiency and haemophilia could be inherited and also that it would take a thousand years of selective breeding to free a race of the heterozygous elements. The meeting was very well attended and Miss Jepson met many of her former students.

EDINBURGH

Analgesics

SPEAKING on "Analgesics" at a recent meeting of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society, DR. R. E. LISTER stressed the importance of the quantitative pharmacological assessment in the development of new analgesics. He gave a brief review of the laboratory methods of testing analgesics and their clinical evaluation. The properties of the newer synthetic analgesics which have been developed during the past decade were discussed. Pethidine was the most widely prescribed analgesic at the present time, therefore it had served as the starting point for the development of a large number of new compounds many of which are more potent than pethidine, as much as sixty times in some cases. Many analogues of methadone showing an increased activity over the parent compound have been synthesised. Dr. Lister described the properties of the more interesting of these drugs. The synthesis of compounds possessing some portion of the morphine nucleus had led to the preparation of a number of morphinans and benzomorphinans. In the morphinan series two derivatives, (-) 3 hydroxy-N-phenacyl morphinan

(N.I.H.7525) and (-) 3-hydroxy N(3,3-dimethylallyl) morphinan (N.I.H.7466) were potent analgesics in which the analgesic activity was greater, but the addiction liability was less than that of morphine. The benzomorphan derivative phenazocine 2, hydroxy-5,9-dimethyl-2-phenethyl 6,7 benzomorphan hydrochloride also possessed a favourable dissociation between the addiction liability and analgesia. In recent years a number of compounds possessing no formal resemblance to any of the established analgesics had been described, one compound in particular a benzimidazole derivative had an analgesic activity one thousand times that of morphine. Dr. Lister stressed that an increase of potency was of little value if accompanied by increased side effects and much of the present research in this field was aimed at separating the desirable from the undesirable properties of analgesics. These properties can only be adequately assessed by means of double-blind controlled clinical trials. Mr. PATTERSON said he had noticed when pain was not severe and an analgesic was taken it was effective, but if pain was allowed to increase and then the analgesic taken it had little or no effect. Dr. LISTER said that for a low pain level a low dosage sufficed but in the case of a high pain level a more potent treatment was required, in a mild case aspirin may suffice but if such a pain were allowed to increase it may be essential to use a more potent analgesic such as pethidine. Mr. J. A. MYERS said that quite often mild pain by day became a severe pain at night. Was it of advantage to combine steroid therapy with analgesics to prolong the analgesic effect? Where was the site of addiction? Replying Dr. LISTER said the relation of steroid to analgesic was important and many were trying to find an outlet in this direction. On the second point of addiction complex, many theories have been advanced but no true explanation has been given.

NEWS IN BRIEF

JANUARY issue of the *Practitioner* devotes most of its contents to articles upon sedatives and tranquillisers in relation to a variety of conditions.

THE staff of the Proprietary Articles Trade Association were entertained to dinner by the Association's council on December 16, 1959. Before dinner the party attended a theatre.

AN exhibition staged by the Atomic Energy Authority and now touring provincial cities is being presented at the Institute of Technology, Bradford, for twelve days from January 12.

THE National Chamber of Trade considers that "the time would seem to be ripe to modernise the legislation applicable to shops" and local chambers are being asked to consider the many problems involved and refer back their recommendations.

THE Hospital O. and M. Service Report number 3 on Chest Clinics (H.M. Stationery Office, 1s. 9d.), discusses the detail of organising the flow of patients through a clinic, the design of an out-patient appointment system and the ancillary records.

TOPICAL REFLECTIONS

By Xrayser

Little messengers

It is not often that pharmacy finds itself relieved of responsibility by a Government department. Yet that is the position stated by the Ministry of Health in reply to a query from a Pharmaceutical Committee regarding a possible danger to children sent to the chemist's to collect "dangerous pills or potent medicine." The responsibility, states the Ministry (p. 1), must lie with the parents, who should realise that there may be danger in any prescription. The only reference to the pharmacist is that the parents "doubtless expect that the chemist will wrap securely." It is now suggested, by a member of the Pharmaceutical Committee, that the Executive Council should seek the views of the Pharmaceutical Society in the matter. The Society may pardonably feel that their efforts concerning the central-nervous-system drugs did not meet with sufficient appreciation to encourage them to accept the responsibility which the Ministry repudiates. Nevertheless, I have considerable sympathy with the East Ham Pharmaceutical Committee, for the problem, to the conscientious pharmacist, appears a very real one, even though I have no experience of any disastrous consequences arising from youthful messengers collecting the family medicine. There is, of course, another side to the question. On many occasions a harassed mother is tied to the house by the need for nursing and supervision at home, and she might well go to the pharmacy herself and find the house on fire on her return. While no question of legality is involved, the pharmacist will continue, as in the past, to exercise that discretion which has made him the honorary and unrecognised guardian of the nation's safety.

"Concrete" steps or slippery slope

Readers will share the alarm you express in your leader (p. 11) on the maintenance (or otherwise) of resale prices of goods. The suggestion by the political correspondent of the *Financial Times* that removal of the legal basis for enforcing fixed retail prices is the one concrete step that the Government can take to encourage lower prices, ("which Ministers firmly believe are the key to economic stability in 1960") is not very flattering to either the Government or the Chancellor of the Exchequer. A considerable proportion of the electorate, who recently showed a preference for a continuance of the present holders of office, were probably unaware, when they voted, that economic stability in the country lay, not in the hands of the Government, but in those of the price-cutter. If the correspondent quoted is to be believed, we are indeed in desperate straits. What the writer referred to as "concrete steps," the writer should have called a slippery slope. It will be a sad and expensive day for the country if its citizens are to be compelled to buy everything from the large unit, for the unopposed large unit can dictate to the buyer and force him to accept the standards it wants to impose. (Memo: I must inquire whether income tax, postage, telephones, and national insurance and health service stamps are suitable subjects for investigation by the Monopolies or Restrictive Practices authorities.)

The indispensable

In a long career of attempting to provide for the pharmaceutical needs of the community, one meets with all kinds—the grudging, the abusive, the appreciative and the flattering. A person who belongs exclusively to the last-named category greeted me recently with the introductory remark that "chemists know far more than doctors"—a promising, if not original, opening. He suffered, it seemed, from a "deeduoal" ulcer; had frequent headaches; couldn't sleep at night; had tingling in his feet and cramp in his legs; suffered also from weakness and sweating; was breathless on climbing stairs; had spots in front of his eyes on bending; was "a bit off his food"; and had severe pains in his back on tying his shoelaces. Such confidence in the chemist was touching in the extreme. With a magnificent gesture, he laid fourpence on the counter. I gave him full value. I considered all the symptoms most carefully—and telephoned for an ambulance.

ROYAL WARRANT HOLDERS

1960 list published

INCLUDED in the full list of royal warrant holders published as a supplement to *The London Gazette* on January 1 were the following:—

To the Queen

AIRWICK, LTD., Slough, Bucks (Airwick).
 ALLEN & NEALE (CHEMISTS), LTD., King's Lynn (chemists).
 JOSEPH BENTLEY, LTD., Barrow-on-Humber (horticultural chemicals).
 BOOTS PURE DRUG CO., LTD., Nottingham (soap, horticultural and agricultural insecticides).
 BRITISH GLUES AND CHEMICALS, LTD., London (mineral supplements).
 H. BRONNLEY & Co., LTD., London (toilet soap).
 WILLIAM BUDDLES & Co., London (chemists).
 COOPER, McDUGALL & ROBERTSON, LTD., Berkhamsted, Herts (sheep and cattle dips, veterinary preparations).
 JOSEPH CROSFIELD & SONS, LTD., Warrington, Lancs (soap).
 DAY, SON & HEWITT, LTD., London (animal medicines).
 FISONS, LTD., Felixstowe (chemical fertilisers).
 D. & W. GIBBS, LTD., London (soap).
 WALLACE HEATON, LTD., London (photographic equipment).
 H. J. HEINZ & Co., LTD., London (Heinz products).
 HYGENOL Co., LTD., Leeds (disinfecting materials).
 IDRIS, LTD., London (mineral water, fruit beverages).
 ILFORD, LTD., London (photographic materials).
 M. L. IRONSIDE, Ballater (chemist).
 JEVES SANITARY COMPOUNDS, LTD., Chigwell (disinfectants).
 G. B. KENT & SONS, LTD., London (brushes).
 JOHN KNIGHT, LTD., London (soap).
 KODAK, LTD., London (photographic supplies).
 LEVER BROS., PORT SUNLIGHT, LTD., Port Sunlight, Ches (soap).
 MACKENZIE & Co. (CHEMISTS), LTD., Edinburgh (chemists).
 MURPHY CHEMICAL Co., LTD., Wheat-hampstead, St. Albans (agricultural insecticides).
 A. NELSON & Co., LTD., London (chemists).
 A. & F. PEARs, LTD., Isleworth, Middlesex (soap).
 PETTIFER THOMAS & Co., LTD., Rugby (animal medicines).
 POTTER & CLARKE, LTD., Barking (nose-gays).
 RANK PRECISION INDUSTRIES, LTD., London (cinematograph equipment).
 RECKITT & SONS, LTD., Hull (metal polish, antiseptics and disinfectants).
 C. J. REID (ETON), LTD., Eton (chemists).
 ROBERTS WINDSOR, LTD., Windsor (toilet soap and cleansing fluids).
 ROGER & GALLET, Paris, France (soap).
 L. ROSE & Co., LTD., St. Albans, Herts (lime juice cordial).
 SANITAS Co., LTD., London (Sanitas).
 SAVORY & MOORE, LTD., London (chemists).
 SCRUBB & Co., LTD. (Scrubbs ammonia).
 THAWPIT, LTD., London (Thawpit).

THERMOS, LTD., London (vacuum vessels).

VINOLIA Co., LTD., Isleworth (soap).

YARDLEY & Co., LTD., London (soap).

To Queen Elizabeth the Queen Mother

H. BRONNLEY & Co., LTD., London (toilet soap).
 D. R. HARRIS & Co., LTD., London (chemists).
 WALLACE HEATON, LTD., London (photographic equipment).
 THOMAS HEDLEY & Co., LTD., Newcastle-on-Tyne (soaps, detergents).
 IDRIS, LTD., London (fruit beverages).
 LEVER BROS., PORT SUNLIGHT, LTD., Port Sunlight, Ches (soap).
 A. NELSON & Co., LTD., London (chemists).
 ROBERTS WINDSOR, LTD., Windsor (toilet soap).
 SAVORY & MOORE, LTD., London (chemists).
 To the Duke of Edinburgh
 WALLACE HEATON, LTD., London (photographic equipment).

PENHALIGON'S, LTD., London (toilet requisites).

SAVORY & MOORE, LTD., London (chemists).

RONSON PRODUCTS, LTD., London (electric shavers).

To the late King George VI

BOVRIL, LTD., London (Bovril).
 BRAND & Co., LTD., London (meat essences).
 H. E. CURTIS & SON, LTD., London (surgical appliances).
 J. FLORIS, LTD., London (perfumers).
 HORLICKS, LTD., Slough (malted milk).
 KIA-ORA, LTD., London (fruit beverages).
 A. WANDER, LTD., London (Ovaltine).

To the late King George V

BEKEN & SON, Cowes, Isle of Wight (chemists and druggists).

To the late Queen Mary

F. G. DE FAYE, LTD., Jersey (perfumers).
 SAVORY & MOORE, LTD., London (chemists).
 IDRIS, LTD., London (mineral waters).
 YARDLEY & Co., LTD., London (perfumers).

EXHIBITIONS AND FAIRS IN 1960

United Kingdom

ADVERTISING SERVICES EXHIBITION, Exhibition hall, Harrogate, May 3-7.
 ANNUAL DAIRY SHOW, Olympia, London, W.14, October 25-28.
 BUSINESS EFFICIENCY EXHIBITION, Olympia, London, W.14, October 3-12.
 COMPRESSED AIR AND HYDRAULICS EXHIBITION, Olympia, London, W.14, April 25-29.
 Daily Mail IDEAL HOME EXHIBITION, Olympia, London, W.14, March 1-26.
 INDUSTRIAL PHOTOGRAPHIC AND TELEVISION EXHIBITION, Royal Albert hall, London, S.W.7, November 21-25.
 INSTRUMENTS, ELECTRONICS AND AUTOMATION EXHIBITION, Olympia, London, W.14, May 23-28.
 INTERNATIONAL EXHIBITION OF PHOTOGRAPHY, Laing Municipal Art Gallery, Newcastle-on-Tyne, October 15-November 5.
 INTERNATIONAL GIFTS AND FANCY GOODS FAIR (eleventh), Blackpool, February 1-5.
 INTERNATIONAL PHOTO FAIR, Olympia, London, W.14, May 29-June 3.
 INTERNATIONAL PLASTICS EXHIBITION AND CONVENTION, Olympia, London, W.14, June 21-July 1.
 FACTORY EQUIPMENT, HEATING, VENTILATION AND THERMAL INSULATION EQUIPMENT, Earls Court, London, S.W.5, November 13-18.
 MEDICAL EXHIBITION, St. Andrew's hall, Glasgow, May 23-27.
 MECHANICAL HANDLING EXHIBITION, Earls Court, London, S.W.5, May 3-13.
 NATIONAL BUSINESS EFFICIENCY EXHIBITION, Bingley hall, Birmingham, May 16-21.
 NATIONAL DISPLAY EQUIPMENT ASSOCIATION, hotel Russell, Russell Square, London, W.C.1, February 22-25.
 OIL AND COLOUR CHEMISTS' ASSOCIATION, Royal Horticultural Society new hall, London, S.W.1, March 15-17.
 PHYSICAL SOCIETY'S EXHIBITION, old and new halls, Royal Horticultural So-

cietv, London, S.W.1, January 18-22.

PURCHASING OFFICER'S ASSOCIATION MINIBITION, Scarborough, September 29-October 1.

SELF-SERVICE AND SHOP EQUIPMENT EXHIBITION, Olympia, London, W.14, May 23-27.

Overseas

ANNUAL CONVENTION AND COMMERCIAL EXHIBITION OF CATHOLIC HOSPITALS, Quebec, Canada, June 27-29.
 ANNUAL PHOTOGRAPHIC SHOW, Coliseum, New York, U.S.A., February 17-22.
 ANNUAL SCIENTIFIC ASSEMBLY TECHNICAL EXHIBITION, American Academy of General Practice, Philadelphia, U.S.A., March 21-24.
 ATOM FAIR AND NUCLEAR CONGRESS, New York, U.S.A., April 5-9.
 BRITISH EXHIBITION, New York, U.S.A., June 10-26.
 INTERNATIONAL CONGRESS AND EXHIBITION OF PHYSICAL MEDICINE, Washington, D.C., U.S.A., August 21-26.
 INTERNATIONAL EXHIBITION OF PACKAGING MACHINES AND MATERIALS, Dusseldorf, Germany, April 20-27.
 INTERNATIONAL EXHIBITION OF MEASURING INSTRUMENTS, Dusseldorf, October 19-26.
 INTERNATIONAL FAIR AND PACKAGING SAISON, Padua, May 29-June 13.
 NATIONAL PACKAGING EXPOSITION, Convention hall, Atlantic City, U.S.A., April 4-7.
 INTERNATIONAL PHOTO AND CINE EXHIBITION (Photokina), Cologne, September 24-October 2.
 INTERNATIONAL PLASTICS EXHIBITION (macroPlastics), Croeselaan, Utrecht, October 19-26.
 INTERNATIONAL TECHNICAL FAIR, Utrecht, April 5-14.
 NATIONAL PHOTO TRADE SHOW AND CONVENTION, St. Louis, Missouri, U.S.A., March 21-25.

MARRIAGES

WATSON—BARCLAY.—At South Parade Baptist Church, Headingley, Leeds, recently, Robert Bruce Watson, Burnley, Lancs, lecturer in organic chemistry, Leeds college of technology, to Mary Doris Barclay, Leeds.

DEATHS

FARQUHAR.—On December 16, 1959, Mr. Douglas George Farquhar, M.P.S., 45 High Street, Strichen, Aberdeenshire. Mr. Farquhar qualified in 1911.

FINLAY.—At a nursing home on December 27, 1959, Mr. Stewart Finlay, J.P., husband of Mrs. May Finlay, M.P.S., 397 Lisburn Road, Belfast.

FLEETWOOD.—On November 19, 1959, Mr. Frederick Edward Fleetwood, M.P.S., 26 Roding Road, Loughton, Essex. Mr. Fleetwood qualified in 1927.

HART.—On December 26, 1959, Mr. Thomas Seymour Hart, M.P.S.N.I., Armitage House, Newcastle, co. Down. Mr. Hart, who qualified in 1929, had lived in the town for more than twenty years and five years ago he began business on his own behalf. Keenly interested in choral music, he was chairman of the local choral society.

NOSWORTHY.—On December 15, 1959, Mr. Alan Benjamin Walter Nosworthy, M.P.S., The Pharmacy, High Street, Newnham, Glos. Mr. Nosworthy qualified in 1921.

PEARSON.—On January 1, Mr. Andrew Pearson, M.P.S., 1 Murrayfield Road, St. Andrews, Fife. Mr. Pearson qualified in 1926. He was manager and director of Miles Leith, Ltd., 18 Bell Street, St. Andrews, a position he had held for about ten years.

PLOWRIGHT.—On January 1, Mr. Alfred John (Tim) Plowright, F.P.S., Dykelands, Meadow Close, Hove, Sussex. Mr. Donald W. Hudson (a past-president of the Pharmaceutical Society) writes: Alfred John Plowright, affectionately known to so many of his colleagues as "Tim," was the son of a distinguished pharmacist who carried on business in Beaconsfield Road, Brighton, for many years. To local pharmacists Tim was just John Plowright's son, but it was not many years before he had carved out his own career. Trained by his father, he qualified in July 1926. During his college life he was an outstanding student, securing the Edmund White medal and scholarship. He secured the diploma of Pharmaceutical Chemist after training at Brighton Technical College. During those years he was liked by all his fellow students and respected by his teachers. The qualities of sincerity, integrity and loyalty formed in his early pharmaceutical life remained with him throughout his entire career and have earned for him a place of affection amongst his colleagues in every town and city in the country. His service to the Pharmaceutical Society of Great Britain commenced in December 1928 and much of his early work was centred on the Bill which preceded the Pharmacy and Poisons Act of 1933. He was appointed assistant secretary

in March 1948 and since that time has been closely associated with the development of modern pharmaceutical education, the administration of the Society's Benevolent Fund and the Birdsgrove House Fund. His early death at the age of fifty-five is a sad blow to the entire staff of 17 Bloomsbury Square, to his colleagues throughout the country and to his many friends in the Brighton, Hove and District Branch. To me, a close personal friend for more than a quarter of a century, it is tragedy and an irreparable loss.

RENNIE.—On January 2, Mr. James Rennie, M.P.S., 2 St. Fillans Road, Stepps, Glasgow. Mr. Rennie qualified in 1931.

RUMNEY.—On November 30, 1959, Mr. Leonard Rumney, aged seventy. Mr. Rumney was a representative of Ilford, Ltd., Ilford, Essex, calling on chemists in the southern Home Counties and along parts of the south coast until his retirement five years ago. He joined Wellington & Ward, Ltd., in 1908 and when the company united with Ilford, Ltd., in 1931, he was transferred to Ilford.

SIMM.—Recently, Mr. Phillip Clifford Simm, M.P.S., 14 High Street, Ledbury, Herefords. Mr. Simm, a native of Lancashire, qualified in 1930. He was employed by Boots, Ltd., at Nottingham, London, Newcastle-on-Tyne and Perth before becoming manager of the Ledbury branch in 1954.

TRAUB.—On December 31, 1959, Mrs. Effie Deans Traub, wife of the late Mr. Leonard Bocking Traub, M.P.S., Neilston Road, Barrhead, Lanarks.

PERSONALITIES

MR. R. P. S. BACHE (managing director, Geo. Salter & Co., Ltd., West Bromwich), has been appointed to the newly formed Export Publicity Council. The objects of the Council are "to keep under review publicity and information, both official and unofficial, in support of British exports, and to advise on the markets, media and industries where increased publicity efforts, whether temporary or permanent, seem most likely to be of value; to give advice on all other matters referred to it in the field of export publicity; and to receive reports about the action to be taken on its recommendations."

MRS. MARGARET C. SCOTT, who was appointed advertising manager of Shulton (Great Britain), Ltd., on January 1, has been with Shulton since May 1957 when the company first started in Great Britain. For the past year she has acted as assistant to the managing director, with special responsibilities for publicity and advertising matters. Mrs. Scott is the daughter of Mr. Gordon Smith, M.P.S.,

who until his retirement was a retail pharmacist in Hale, Ches, and was a past-president of the Manchester Branch of the Pharmaceutical Society.

MR. R. M. DICKSON, M.P.S., who has been the Scottish area director of Boots, Ltd., for the past seven years, has been appointed London director and southern area director for the company with effect from January 1. Mr. Dickson was appointed a director of Boots Pure Drug Co., Ltd., in April 1959, and has been a director of Boots (Northern), Ltd., since 1948. Mr. Dickson joined Boots in 1923. For a time he was general manager of the associate company in New Zealand. He is being succeeded as Scottish area director by MR. HENRY T. FRASER, who also becomes a director of Boots (Northern), Ltd. Since August 1947 Mr. Fraser has been the territorial general manager of the company's largest area, reaching from Dundee to the Orkneys.

MR. WILLIAM E. KIRKMAN, M.P.S., J.P., Station Road, New Milton, Hants, who has sold his controlling interest in the pharmacies of W. E. Kirkman, Ltd., to Savory & Moore, Ltd. (see p. 32), has retired at the age of eighty-four. Mr. Kirkman was apprenticed to his grandfather in West Street, Fareham, Dorset, and after qualifying emigrated to South Africa, returning to England at the end of the nineteenth century. He opened a business in Broadstairs, Kent, which he sold eight years later, afterwards opening his first pharmacy in 1906 in New Milton where he subsequently expanded his activities in the neighbourhood so that at the time of his retirement, there were eight pharmacies under his control. Mr. Kirkman is a former mayor of Lymington.

ROYAL SOCIETY

THE president of the Royal Society (Sir Cyril Hinshelwood) has appointed the following vice-presidents: **SIR WILLIAM PENNEY**, K.B.E. (treasurer of the Society and member for scientific research, United Kingdom Atomic Energy Authority); **SIR LINDOR BROWN**, C.B.E. (biological secretary of the Society and Jodrell professor of physiology, University College, London); **SIR WILLIAM HODGE** (physical secretary of the Society, and Lowndean professor of astronomy and geometry, Cambridge University); **DR. H. G. THORNTON** (foreign secretary of the Society and lately head of the department of soil microbiology, Rothamsted Experimental Station); **SIR PATRICK LINSTED**, C.B.E. (rector, Imperial College of Science and Technology); and **PROFESSOR WILSON SMITH** (professor of bacteriology, University College Hospital Medical School, University of London).



Mr. R. M. Dickson



COMPANY NEWS

Previous year's figures in parentheses

WHIFFEN & SONS, LTD.—Mr. Arthur H. Pashley (a director and the general manager) has retired.

EVANS CHEMICALS, LTD.—Mr. Robert W. Ramsay (director and general manager), has been appointed managing director.

ALLEN & HANBURY, LTD.—Mr. W. J. Rennie (a director and the secretary) retired on December 31, 1959. He is succeeded as secretary by Mr. L. M. Bennett.

PARKE, DAVIS INTER-AMERICAN CORP., LTD., Ontario.—Mr. L. O. Smith (general manager of Parke, Davis & Co., Ltd., Hounslow, since 1946) has been elected to the board.

UPJOHN OF ENGLAND, LTD.—Mr. Alistair A. Smith was appointed managing director on January 1, succeeding Mr. James A. Braun, who now becomes chairman of the company.

SOLARTRON ELECTRONIC GROUP, LTD.—An agreement to acquire a 53.125 per cent. interest in the group by Firth Cleveland, Ltd., Stornaway House, Cleveland Row, London, S.W.1, is announced. It will provide £900,000 immediately to ensure the adequate financing of Solartron's next five year period of development and expansion. Messrs. Charles W. Hayward and Gordon Harries (chairman and secretary respectively of Firth Cleveland), join the Solartron board, with Mr. Hayward as chairman and Mr. John E. Bolton, deputy chairman and managing director.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—The following divisional board changes are announced:—Mr. M. A. E. Hodgson, development director of the heavy organic chemicals division (from February 1); Mr. R. Haslam, personnel director, Nobel division (from February 1) in succession to Dr. A. C. Richardson who is retiring; Mr. C. G. Harris (general chemicals division research director), retired on December 31, 1959; Dr. A. J. Amor, I.C.I. principal medical officer for the past thirteen years, retired also on that date and is succeeded by Dr. A. Lloyd Potter, who since 1946 has been medical officer of I.C.I. general chemicals division in Cheshire.

COOPER McDUGALL & ROBERTSON, LTD.—Accounts cover a period of eight months for the parent and eleven months for overseas subsidiary companies to August 31, 1959. Consolidated profit for periods including exchange profits of £623 (losses of £33,863) is £236,099 (£165,246 for year). Tax £135,070 (£102,163), plus additional adjustment £10,407 (credit £13,430). Add profit on sale of fixed assets £12,526 (£10,228), and provisions no longer required £26,488 (£10,180). Retained by subsidiaries £58,104 (£1,312). Net profit parent £71,532 (£95,609). To capital reserves £7,343 (£9,149). No dividend (10 per cent. plus 2½ per cent. capital distribution). Forward £125,506 (£82,191). The issued ordinary capital has been acquired by the Wellcome Foundation, Ltd., and Stock Exchange quotation of the company's Ordinary shares has been withdrawn.

KEMBALL, BISHOP & CO., LTD.—Mr. Philip Colebrook (managing director, Pfizer, Ltd.), has also been appointed managing director of Kemball, Bishop & Co., Ltd. Mr. Colebrook succeeds Messrs. W. W. Muir and R. F. Kemball (joint managing directors); Mr. Muir remains on the board in an advisory capacity. Mr. John Platt has been appointed general works manager.



Mr. P. Colebrook

New Companies

P.C. = Private Company; R.O. = Registered Office

L. A. JOHNSON, LTD. (P.C.).—Capital £7,000. To carry on the business of manufacturing and general chemists, etc. Directors: Leonard A. Johnson, M.P.S., and Mary Johnson. R.O.: 60 Park Road, Wigan.

S. HOLT (CHEMIST), LTD. (P.C.).—Capital £5,000. To carry on the business of chemists, druggists dispensers, etc. Directors: Samuel Holt, M.P.S., 77 Parkway, Chadderton, Lancs, and Mrs. Grace Holt.

NORTHWOOD PHARMACIES, LTD. (P.C.).—Capital £3,000. To carry on the business of chemists, druggists, etc. Subscribers: June Simpkins and Janet Ross. Directors: Herbert W. W. Northwood, jun., and Kathleen E. Northwood, M.P.S. Solicitors: H. B. Supperstone & Co., 78 South Audley Street, London, W.1.

HOWELLS & HARRISON (SOUTH-END), LTD. (P.C.).—Capital £15,000. To acquire the business of chemists carried on by C. P. Howells and W. C. F. Harrison as "Harrison & Howells" at Southend-on-Sea, and at Thorpe Bay, Essex, and at Bromley, Kent, etc. Directors: Cyril P. Howells, M.P.S., William C. F. Harrison, M.P.S. (director), W. C. F. Harrison (Pantiles), Ltd., R.O.: 8 Earls Hall Parade, Southend-on-Sea, Essex.

BUSINESS CHANGES

WELLESBOURNE PHARMACY, LTD., have opened in Kineton Road, Wellesbourne, Warwicks.

SAVORY & MOORE, LTD., have acquired the pharmacies of W. E. Kirkman, Ltd., New Milton, Hants.

D. & F. GLOVER have acquired the pharmacy of Mr. Thomas Ross, M.P.S., 14 High Street, Lochwinnoch, Ayrshire.

GERALD HUGHES (CHEMISTS), LTD., have opened a pharmacy at 14 Cross Street, Reading, Berks.

MR. LIONEL STEIN, M.P.S., has acquired the pharmacy of Mr. H. Sherwood, M.P.S., 190 Broadhurst Gardens, London, N.W.6.

COUNTY CHAMOIS CO., LTD., have removed to John Street Leather Works, Glascote, Tamworth (telephone: Tamworth 1672).

MR. J. M. WILYMAN, M.P.S., has

acquired the pharmacy at 297 Baldwin's Lane, Croxley Green, Rickmansworth, Herts, formerly owned by Mr. G. W. Davie, M.P.S.

MR. H. T. CHRISTIAN, M.P.S., is closing his pharmacy at 10 Goldsmith Street, Nottingham, on January 31 and transferring the business to the Toton Pharmacy, Spinney Crescent, Stapleford Lane, Toton, Beeston Nottingham, on March 1.

UNITED AFRICA CO. GROUP have recently acquired in East Africa the business of Grayson & Co., Ltd. The business is to continue to operate as a separate venture with Mr. A. Cockburn (a member of the board under Graysons' previous ownership) as managing director, and Mr. J. W. W. Johnston, chairman.

Appointments

THORNTON & ROSS, LTD., Linthwaite, Huddersfield, have appointed Mr. W. J. Shaw their representative in Northern Ireland.

GEORGE SPENCER & SON, LTD., have appointed Mr. J. K. Anderson, 31 Hazeldene Road, Patchway, Bristol, their representative in Devon, Cornwall, Somerset, Gloucestershire and South Wales.

LAPORTE INDUSTRIES, LTD., Luton, Beds, have appointed Mr. M. H. Akeroyd their Midlands area sales manager. Mr. Akeroyd will be a member of the staff of A. W. Brook, Ltd. (a wholly-owned subsidiary which acts as a selling organisation for that area).

POTTER & MOORE, LTD., have appointed Mr. A. S. Harris, Ashleigh, Westhead Road North, Cookley, Kidderminster, representative in their Midlands area, to replace Mr. Stevens, who has been moved to the South-west England territory and is now residing at Ivy Cottage, Chapel Lane, Bransgore, near Christchurch, Hants.

MONSANTO CHEMICALS, LTD. 10 Victoria Street, London, S.W.1, have appointed Mr. W. H. Ritchie their development manager, projects, and Mr. N. G. H. Thomas their development manager, products. Mr. Ritchie is to be responsible for "progressing" the manufacture of new products, and for development planning and Mr. Thomas for the development and introductory marketing of new products, and for market research.

OVERSEAS VISITS

MR. THEO F. C. MILLS (a chemicals consumer sales representative of Newton, Chambers & Co., Ltd.), is flying to Singapore and will subsequently visit Malaya, Hong Kong, Thailand, India and Pakistan during a 20,000-mile tour on behalf of the export division of the company's chemicals department.

MR. D. BOOCOCK (technical director, Standardised Disinfectants Co., Ltd.), is visiting Malta, Cyprus, Jordan and territories in the Persian Gulf in February. During his tour he will be concerned with both the commercial and technical aspects of the company's exports of livestock dips, wood preservatives, insecticides for agricultural, medical and industrial pest control.

NEW PRODUCTS AND PACKS

Skeletal Muscle Relaxant. — A. H. Robins Co., Ltd., 5 Fenchurch Street, London, E.C.3, announce that their skeletal muscle relaxant, Robaxin, is now available in an injectable form in addition to the tablets. The packs are containers of five and twenty-five 10-c.c. ampoules.

Non-salicylate Analgesic. — W. B. Cartwright, Ltd., Rawdon, Leeds, are the manufacturers of Cetal analgesic and antipyretic tablets for the relief of headaches, period pains, migraine, colds and influenza, etc. Each Cetal tablet contains 0.5 gm. of paracetamol. The packs are containers of twenty and forty tablets available in a display box containing ten bottles of twenty and two bottles of forty.

An Anticholinesterase. — Chimimport, the State Commercial Enterprise of Bulgaria, is sponsoring an anticholinesterase speciality Nivalin (galanthaminum hydrobromicum). Nivalin is claimed to bring about a transitory inhibition of activity of cholinesterase. It is understood to exert an antagonism against tubocurarine and synthetic preparations similar to that compound. Nivalin is presented as a 0.25 or 0.50 per cent. solution in 1-ml ampoules; and as 1 per cent. eye-drops for local application in ophthalmology. Both varieties are issued in boxes of ten, fifty and 100.

"Triple-action" Cough Syrup. — Abbott Laboratories, Ltd., 8 Baker Street, London, W.1, have launched a new cough syrup: Tecaldrine. The product combines, in one syrup, antihistaminic, antitussive and expectorant ingredients, its formula being Thienylene (methapyrilene hydrochloride, Abbott), 50 mgm.; dextromethorphan hydrobromide, 30 mgm.; ammonium chloride, B.P., 250 mgm.; liquid extract of ipecacuanha, B.P., 0.5 min.; menthol, B.P., gr. 1/10; syrup, B.P., 24.5 gm. Controlled under S.4 of the Poisons Rules, Tecaldrine is available in bottles of 4 and 40 fl. oz.

A Mild Analgesic. — Pfizer, Ltd., Folkestone, Kent, are distributing for the manufacturers (C. H. Boehringer Sohn, Ingelheim-on-Rhine, Germany) a new speciality, Valtorin—a mild analgesic claimed to "supersede aspirin and paracetamol." The active principle of Valtorin is one of the benzmethoxazones, a group hitherto unused in clinical medicine. The compound is understood to have an exceptionally high safety factor, making it six times as safe as aspirin and three times as safe as paracetamol, and not to irritate the intestinal mucosa or cause gastric hæmorrhage. The packs are boxes of six and twelve tablets and dispensing packs of 100 and 300.

Antirheumatic Speciality. — F.B.A. Pharmaceuticals, Ltd., 37 Bedford Row, London, W.C.1, launched on January 1 a new compound antirheumatic preparation, Elestol, each tablet of which contains 0.04 gm. of Resochin (chloroquine phosphate); 0.75 mgm. of prednisone; and 0.2 gm. of aspirin. Advantages claimed for Elestol are that it rapidly stabilises the effect of prednisone and reduces the dosage of the corticosteroid

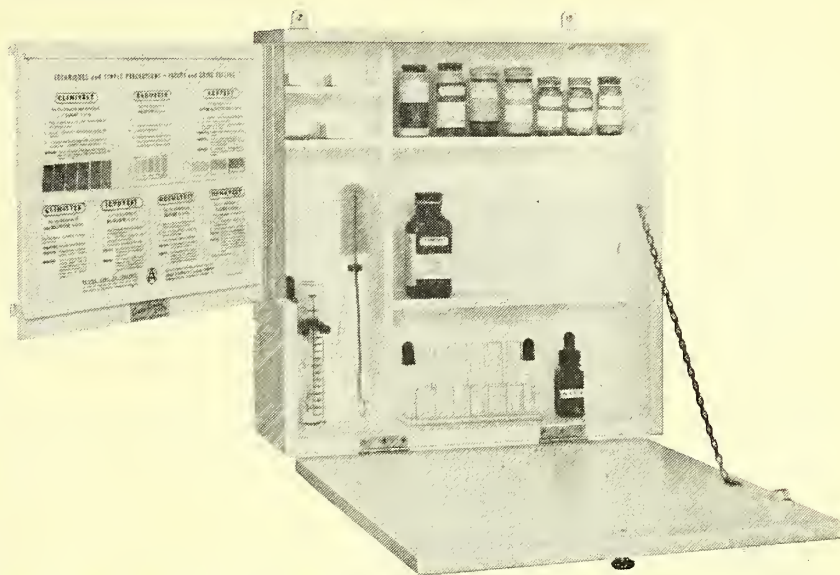
and safely bridges the latent period until the effect of the Resochin becomes manifest. Elestol is intended to be prescribed for the initiation of a course of Resochin in chronic rheumatoid arthritis, rheumatic spondylitis and subsiding acute polyarthritis. In muscular rheumatism and other painful rheumatic conditions of the locomotor system, Elestol is administered daily until therapeutic success is obtained. The product is claimed free of side effects except for occasional mild intolerance reactions of the intestinal tract. The packs are a box of thirty and a container of 150 sugar-coated tablets.

Antibacterial Skin Cleanser. — Bayer Products, Ltd., Kingston-on-Thames, Surrey, introduced on January 4 a new antibacterial skin cleanser, pHisoHex, a creamy emulsion containing a new detergent (alkylphenoxypolyethersulphonate) as well as 3 per cent. w/w of hexachlorophene in a colloidal dispersion, together with lanolin cholesterol. The product has the same pH as the skin and, because of its emollient action, it does not cause, it is claimed, the drying, irritating and allergic effects normally associated with soap and detergents. Understood to be 40 per cent. more surface-active than soap, it cleans and "degerms" at a faster rate; its lathering is less than with soap but is unaffected by water hardness. Skin washed with pHisoHex acquires a semi-permanent antibacterial film that retains its action for hours and sometimes days. The manufacturers recommend the use of the product for prevention of cross infection in hospitals, and by general practitioners for between-patient washes. Its uses in dermatology include the treatment of acne, pruritus and furunculosis. The packs are a 150-ml refillable "squeeze," and a 4-litre polythene, containers.

Urine Test Cabinet. — Cuxson, Gerard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, offer a urine-test wall cabinet for use in hospital wards. The cabinet, the A130, houses all the reagents and apparatus necessary for

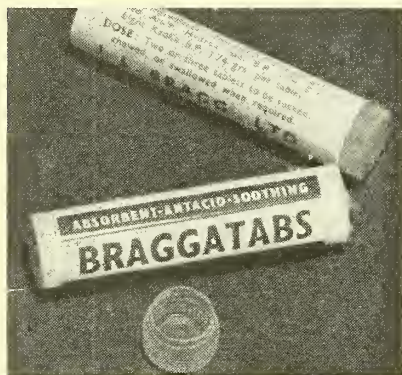
urine testing in hospital wards. From it the urinometer is quickly removed and replaced, yet snug enough not to get broken. A wall chart issued with the cabinet is clean and easy to read. The door of the cabinet lowers to provide a laminated-plastic working surface, against whose white background colours are easily compared. There is room in the cabinet for additional reagents, for example the Fantus test, though it is compact and presentable. All metal fittings are of brass or chromium-plated. The top shelf holds one bottle each of Acetest, Albustix, Clinistix, Ictotest, Occultest and Hematest. A compartment left holds test papers and indicator papers, and a second shelf holds a bottle of 100 Clinistest tablets with room for other reagents. The bottom shelf is fitted with an Ames test-tube rack with tubes and droppers, and a 1-oz. bottle with Ames standard dropper. The large compartment on the left (see illustration) holds an Ames long dropper, test-tube brush, urinometer and cylinder, the urinometer slipping into a drilled block and the other three items being held by polythene-coated clips. The finish is either wax-finished natural wood throughout or white enamel. The legend "Urine Tests" appears in red letters on the outside.

Ring Pessaries in Plastics. — Portland Plastics, Ltd., Bassett House, Hythe, Kent, have produced a thicker and more flexible type of polythene ring pessary than was available when the item was included in the Drug Tariff in 1959. The new—the Portex "vinyl"—ring is made of non-toxic polyvinyl chloride (PVC) and is equivalent to the old type of "watch-spring" pessary. It is to be included in the Drug Tariff, and will be available on prescription under the National Health Service from February 1. The non-irritant nature of the material enables the rings to be worn for weeks or months without discomfort or risk of vaginitis, and plastic rings are understood to be now preferred as a permanent means of controlling prolapse in certain cases which



previously would have been subjected to operative measures.

Adsorbent Tablets. — J. L. Bragg, Ltd., 60 Beaconsfield Road, London, N.11, have introduced a new speciality. Braggatabs, a balanced and compatible mixture of charcoal, aluminium hydroxide dried gel and kaolin in tablets. The tablets are claimed equally effective whether sucked, chewed or swallowed; indications are indigestion, flatulence, acidity, dyspepsia, heartburn, etc. Each tablet contains gr. 2.175



of charcoal, B.P.C.; gr. 1.74 of dried aluminium hydroxide gel, B.P., and gr. 1.74 of light kaolin, B.P. The packs are containers of twenty-four (two printed polythene tubes of twelve) and fifty. Braggatabs are being advertised locally in Bristol and Newcastle-on-Tyne but are available anywhere to order.

Appetite Suppressant. — Merrell-National (Laboratories), Ltd., 20 Savile Row, London, W.1, announce the availability of an entirely new appetite suppressant, Tenuate. Each tablet contains 1.25 mgm. of tartaric acid; 69.122 mgm. of corn starch dried; 25 mgm. of diethylpropion; 250 mgm. of manitol; 1.73 mgm. of magnesium stearate; and 8.65 mgm. of talc. Tenuate is presented in bottles of thirty and 100 tablets.

Sparkling Glucose Drink. — Made from pure glucose and whole fresh lemon, new sparkling Citroze is being widely advertised in the London area from January 31. The manufacturers are O. R. Groves, Ltd., 20 Jermyn Street, London, S.W.1.

First Lanolised Toilet Tissue. — Newton, Chambers & Co., Ltd., Thorncliffe, Sheffield, have launched what they claim is the first-ever "lanolised" toilet tissue: Izal soft luxury "twin" tissue, available in five pastel shades (pink, blue, green, yellow and white) in display case of 2 doz.

Black-currant Health Drink. — John Dorell (Eastcheap Distributors), Ltd., 14 Eastcheap, London, E.C.3, are suppliers of the new Peacock brand black-currant health drink, packed twelve bottles to a rail-certified fully illustrated carton, the bottles themselves being labelled with a four-coloured lithographed label and sealed with a 31.5 mm. deep pilfer-proof seal. Stocks are available through leading wholesalers.

"Closest, Fastest, Lightest" Shaver. — Ronson Products, Ltd., Leatherhead, Surrey, direct attention to their new Ronson C.F.L. electric shaver with super trim. Features of the new shaver

are "sumptuous" new styling, new presentation case, new voltage control, new on-off switch and new clip-on shaving foil.

"Magnum" Pack of a Shampoo. — Lincoln Chemicals Ltd., 55 Stratford Road, London, W.3, announce a new family ("magnum") pack containing 8 oz. of their Linc-O-Lin beer shampoo—enough for twenty-four shampoos. The container is a Continental-shaped beer bottle in apricot polythene with red cap. It is supplied to the trade in boxes of six.

TRADE NOTES

Now Tax-free. — Reynolds & Branson, Ltd., Leodis Works, North West Road, Leeds, 6, announce that their preparation Feratone has been exempted from purchase tax.

A "Family" Pack. — A new "family" pack of "super" Plenamins (multivitamin and mineral tablet) has been introduced by Rexall Drug Co., Ltd., Loughborough, Leics. The new pack provides a 160-day supply.

Sole Distributors. — Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, have been appointed sole distributors of Mother Seigel's syrup. Consumer and trade prices are unaltered.

An Additional Size. — Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, announce the availability of an additional larger size of their Midicel butterscotch-flavoured suspension of N'-acetyl sulphamethoxypyridazine. The new pack is a bottle of 16 fl. oz.

Now Generally Available. — Bayer Products, Ltd., Kingston-upon-Thames, Surrey, announce that Dibotin oral hypoglycaemic agent is now available, either through wholesalers or direct from the company, to meet hospital out-patient prescriptions.

An Improved Pack. — Stanacen Products, 204 King Street, London, W.6, advise that, from February 1, Stanacen tablets are being sent out in improved packs. For the home trade they will be in a film packing and for the export trade in a foil packing. The formula is being revised and improved.

New Sunglasses Range. — The new season's range of sunglasses by P. Oliver Goldsmith, Ltd., 60 Poland Street, London, W.1, is illustrated in an 8-p. catalogue available from the company. A number of hand-made models are available. All lenses are optically worked Chance's Crookes meniscus.

Discontinued. — PARKE, DAVIS & Co., LTD., Staines Road, Hounslow, Middlesex, have discontinued issuing Mycozol in jar containing 1 lb. Stocks are exhausted. — ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1, have discontinued issuing the 25-tablet pack of Becosym. The 100-tablet and 500-tablet packs remain available.

Distribution in Ireland. — Since January 1, the specialities Asthma 23-D, Chrysocrema, Rhom X and Vandid, manufactured by Carnegies of Welwyn, Ltd., have been marketed in the Republic of Ireland by Riker Laboratories, Ltd., through their sole distributors: Fassett & Johnson (Ireland), Ltd., 6 Crow Street, Dublin.

Concentration of Production. — Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, are making available their Sylvia sanitary towels in packet of six (a new introduction). In view of the heavy demand for Sylvia towels, the production of Altex and Softex towels is being discontinued.

Deleted from List. — Boots Pure Drug Co., Ltd., Station Street, Nottingham, announce that the following items have been deleted from their price list:—Injection of calcium gluconate, B.P., 10 per cent., box of six 5-mil ampoules; Viules of morphine sulphate, gr. 1/6 (100 x 1 mil); and Viules of morphine sulphate, gr. 1/4, with atropine sulphate, gr. 1/150 (100 x 1 mil). All other sizes and strengths continue available.

Periodontal Powder. — Knox Laboratories Ltd., 46 Hertford Street, London, W.1, announce that, from January 15, Bocasan, their speciality for the treatment of periodontal conditions, is being issued in a new, improved presentation. Previously contained in a bottle, the powder is now presented in hermetically sealed, individual-dose sachets in cartons of eight and twenty. After a testing in the Greater London area, distribution is now national and backed by bi-monthly mailings to dentists.

Supply to Practitioners. — Imperial Chemical Industries, Ltd., pharmaceuticals division, Fulshaw Hall, Wilmslow, Ches, announce that Fluothane is available in 250-mil bottle to the medical and veterinary professions. Pharmacists should send such orders to their nearest I.C.I. regional sales office, giving the name of the wholesaler through whom the order should be invoiced. The name of the doctor or veterinary surgeon should be included with the order, and instructions given as to whether the Fluothane is to be dispatched to the pharmacist or direct.

Bonus Offers

HALEX, LTD., Highams Park, London, E.4. Halex tooth-brushes and combs. On combined order for 1 gross each tooth-brushes and combs, fifteen tooth-brushes to doz. On combs, 5 per cent. discount plus 5 per cent. extra discount on total order, plus Bex-Bissell shampoo master. On combined order for 6 doz. tooth-brushes and 6 doz. combs, fourteen tooth-brushes to doz. On combs, 5 per cent. discount plus Bex-Bissell upholstery shampoo kit. On tooth-brushes, fifteen to doz. on order for 1 gross; fourteen to doz. on order for 6 doz.; and thirteen to doz. on order for 3 doz. On all comb orders, 5 per cent. discount.

E. R. HOLLOWAY SALES, LTD., Welwyn Garden City, Herts. Barnett combs. Six free with every large, three with every small, cabinets (twelve to choose from). For delivery before February 15.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex. Planidets antiseptic/analgesic lozenges. Thirteen to doz.

INFORMATION WANTED

The Editor would appreciate information about the following:

Hico-Clima Maske

THE
THEME
OF THE
SPEECHES

PLYMOUTH RESURGAMUS

"C&D"
ARTIST
DEPICTS
SPEAKERS
AND OTHERS

THINKS:
"30 YEARS
AGO..."



J.P.A. FOX
BRANCH CHAIRMAN & TREASURER
PRESENTS CHEQUES
FOR THE SOCIETY'S
BENEVOLENT FUND
AND THE LORD
MAYOR'S CHRISTMAS
DINNER FUND



THE LORD MAYOR OF PLYMOUTH
COUNCILLOR P.N. WASHBOURN
CHAIRMAN EXECUTIVE COUNCIL
FOR PLYMOUTH AND CHAIRMAN OF
SPECIAL HOSPITALS MANAGEMENT COMMITTEE



THE LADY MAYORESS
WEARING THE £20,000
DIAMOND NECKLACE GIVEN
TO THE CITY OF PLYMOUTH
BY LADY ASTOR



G.H. HUGHES
PRESIDENT
PHARMACEUTICAL
SOCIETY OF G.B.
ONCE PLAYED THE MAYOR OF PLYMOUTH
IN THE OPERA "DOGS OF DEVON"



F.J. PACKER
BRANCH
VICE-CHAIRMAN



**MERVYN
MADGE**
BRANCH
SECRETARY



**A.J.H.
COOK**



KENNETH J. WADGE
SOCIAL SECRETARY
PAST CHAIRMAN
OF THE BRANCH



E.W. CHANTER
SOCIAL TREASURER



**MRS.
D.J.
PEARCE**
PLYMOUTH PUCK



**MRS.
D.K.
WADGE**
SOCIAL
SECRETARY'S
RIGHT HAND



W.F. EUSTACE
SECTY. PLYMOUTH
PHARMACEUTICAL
COMMITTEE

PLYMOUTH BRANCH ANNUAL DINNER AND DANCE

DECEMBER 9th 1959

MEDICAL MISSION PHARMACISTS

A link between Africa and the Republic of Ireland

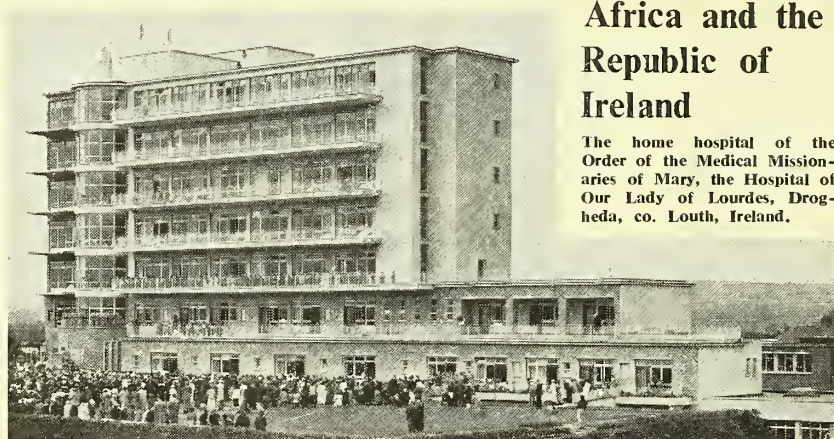
The home hospital of the Order of the Medical Missionaries of Mary, the Hospital of Our Lady of Lourdes, Drogheda, co. Louth, Ireland.

THE recent departure of Sister Mary Fabian Kiely, M.M.M., M.P.S.I., Cullen, Mallow, co. Cork, for Nigeria on the S.S. "Tamele" from Liverpool, directs attention to the work of the Medical Missionaries of Mary, whose Congregation she entered in February 1956, and which conducts in Nigeria leper settlements and training hospitals for Nigerian girls.

Ireland is proud of the number of her sons and daughters who have severed ties of family, friends and country to serve on mission fields overseas. Among them the name of Mother Mary Martin stands high. Daughter of a wealthy timber importer, Miss Martin was born into a family generously endowed with the goods of this world. She abandoned them to spend herself in relieving human suffering. During the 1914-18 war Sister Martin joined a British Army medical corps serving overseas and it was as a result of her experiences as a voluntary aid defence nurse in a hospital in Malta at the height of the Gallipoli campaign that the Medical Missionaries of Mary came to be born.

Today the Order is widely known throughout Africa as the friend of the sick poor. It was established without flourish of trumpets. At the end of hostilities in 1918, the then Miss Martin decided that there was still a war to be fought—against suffering and disease. Concentrating on the possibilities of establishing some sort of organised medical assistance for the relief of distress in the mission fields abroad, she set out for Nigeria in 1921 and for some years worked as a nurse amongst the Africans. The magnitude of the task that confronted her was one which none but the most resolute would dare to tackle but, with the aid of two African girls who acted as guides and interpreters, Miss Martin journeyed along uncharted routes into the heart of the African jungle.

Sustained by her faith, she carried on an unequal struggle against ignorance, superstition, and disregard of even the fundamentals of hygiene. Finding that she could not cope single-handed with the challenge that met her on all sides, Miss Martin reached the conclusion that the only way to tackle the problem was to found a re-



ligious order of dedicated women who, after qualifying as nurses and midwives, would go out to Africa as medical missionaries. Fifteen years were to pass before her dream came true, for at that time members of a religious order were not allowed to practise obstetrics or gynaecology, but in February 1936 Pope Pius XI granted per-

mission to religious orders to devote themselves to all branches of medical work, including midwifery, obstetrics and general surgery, and in April 1937 the Medical Missionaries of Mary came into being. The new Congregation expanded rapidly and today the Order has fifteen mission houses—in Nigeria and Angola, West Africa; and in



Sister Mary Fabian Kiely, M.M.M., M.P.S.I., at work in the hospital pharmacy with Sister Mary Regis Cosgrove, M.M.M., a pharmacy student.



Mr. James G. Coleman, M.P.S.I. (registrant of the Pharmaceutical Society of Ireland) and Miss A. Esmund photographed with Sisters of the Order at a recent ceremony of religious profession of new members of the Congregation.

Uganda and Tanganyika, East Africa. Included in the establishments of the Order are hospitals with teaching and training schools for African nurses; maternity clinics and marriage training centres and four leper settlements.

The habit of the sisters little resembles the conventional nun's habit, being much more like a nurse's uniform. In September 1957 the Order opened at Drogheda a Hospital of Our Lady of Lourdes, officially recognised as an international medical missionary training centre. The hospital is strikingly modern and well equipped.

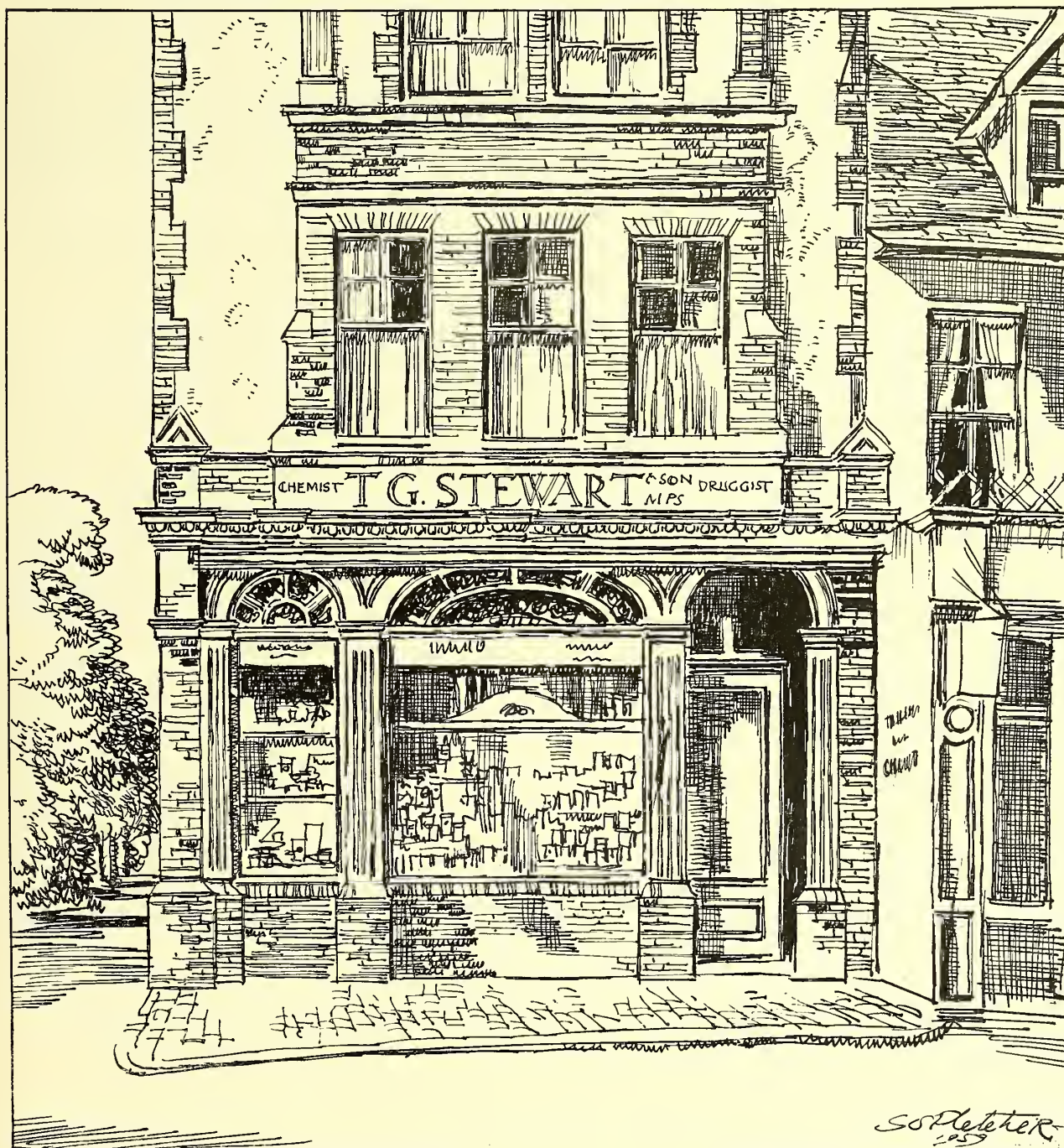
Sister Mary Fabian, with whose departure for Africa this account of the

Order opened, qualified as a pharmacist in 1953. With her in the group photograph is Sr. Mary Dolores, the first pharmacist to enter the Congregation. Sr. Dolores served her apprenticeship to pharmacy with her late brother-in-law, Mr. D. McGrath, Dublin. She gained experience as a hospital pharmacist in the pharmacy attached to

the hospital at Drogheda, and is thus well equipped professionally to become the pioneer pharmacist in the Congregation's mission fields in Tanganyika, East Africa. She sailed from London on the "Rhodesia Castle" on November 4. To help with the education of Sisters M. Regis and Bridget Joseph, both student pharmacists, and

of future Sister pharmacists for foreign missions, a group of Irish pharmacists recently opened a Bursary, and at the recent ceremony of religious profession of the new members of the Congregation Mr. J. G. Coleman, M.P.S.I. (registrar of the Pharmaceutical Society of Ireland) and Miss A. Esmond were guests of the Sisters.

PHARMACIES OF BRITAIN



A PHARMACY AT ASCOT

Ascot is not remarkable for fine architecture, but has a few attractive shops, of which one of the most interesting is the pharmacy of T. G. Stewart & Son. The style is that of the late 'nineties, with cut brickwork and pebble-dash. One semi-circular and one large flattened arch in the windows are balanced again by the door. The arches are filled in with leaded lights.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

True Profit Figures

SIR,—It is refreshing to find on the front cover of last week's *C. & D.* an advertisement giving true percentage profit figures. Let us hope that other manufacturers, including those whose goods carry purchase tax, will have the courage to follow that good example. I notice that one "80 per cent." advertisement still persists, though the words "on cost" are now prominent. That, in my opinion, savours somewhat of oriental "face saving," the actual profit remaining at 44.44 per cent. My thanks to the many pharmacists who, by talks with representatives, have assisted in this clean up of misleading advertisement figures.

ERNEST R. SAMWAYS,
Gillingham, Dorset

Rebates and Returns

SIR,—I was interested in A. G. Murdoch's letter (*C. & D.*, January 2, p. 7) regarding price-reduction rebates. The makers of a "fabulous" soap recently reduced the soap by 3s. 6d. per doz. retail. Cut-price, Co-operative and multiple shops benefited because rebate was allowed over the past two months. Their turnover being more rapid, they got rebate for soap already sold at old price. My crime, penalised by not getting rebate, was in purchasing a four-case order a little earlier to get "better terms"! A fairer way is surely to allow for stock on hand! However, 3s. 6d. per doz. wants some making on the meagre profit allowance of the range so I have ceased to stock all lines of that manufacturer. So far I have not yet missed a single sale, but have persuaded the customers to take better-quality goods with better profit margins.

R. B. ROOTS,
Pensby, Wirral

Drug Prices

SIR,—Since my entry into private pharmacy I have particularly missed the retail drug price list issued by multiple chemists to each of their branches. The list was always kept up to date, increases or decreases in prices being notified immediately by head office to the branches. Mace powder in the National Pharmaceutical Union retail price list is 6s. 7d. per oz.—in the Scottish Chemist's retail price list, 2s. 5½d. Antimon et pot. tart. in the N.P.U. list is 4s. 2d. per oz. and in the Scottish list is 2s. 1d. The foregoing are not isolated exceptions, but merely a few drugs picked out at random to illustrate the lack of co-ordination or co-operation between lists. The Executive Councils issue price alterations to the Drug Tariff every month, so one must assume that they are cognisant of market fluctuations.

EX MULTIPLE

[May we hope, if chemists are not to incur the risk that they are insufficiently covered in supplying commodities not now, we believe, in everyday demand, that the Tariff compilers also take note of the *C. & D.* Retail

Drug and Dispensing Price List, which, in the annual edition about to appear with the *C. & D. Diary and Year-book*, 1960, lists antim. et pot. tart. at 5s. 10d. per oz.—EDITOR.]

Safeguards First

SIR,—Your Editorial last week (*C. & D.*, January 2, p. 11) should be the object of congratulations by every practising pharmacist. Implementation of the proposal to abolish price maintenance of medicines would result in loss of profits which, to the retailer, is tantamount to a cut in salary in spite of greater productivity. Equally serious is the fact that the National Health Service could no longer enjoy the subsidy which it now derives from the pharmacists' retail sales. Let each retail pharmacist's voice be heard now through his branch organisation to the effect that we will not co-operate with the Ministry's statisticians in any questionnaire that may lead to a reduction in Drug Tariff prices until our retail prices of medicines are safeguarded—and consequently our unofficial subsidy. I have recently taken individual action in refusing to co-operate with the Ministry's statisticians, for the following reason. I have a contract for galenicals, of which about 80 per cent. are used for my own formulation and packing for retail sale. To quote those prices to the Ministry would be furnishing inaccurate statistics to the detriment of my fellow retailers, as only the odd 20 per cent. would be used for N.H.S. dispensing. The questionnaire has been returned to me with the request that my contract prices be supplied—I am of course refusing to do so.

KEITH JENKINS,
Bovingdon, Herts

Price Free-for-all

SIR,—Like many other chemists, I am very disturbed by your leader about price maintenance, and will forward same with a covering letter to my M.P. I will ask him, at the next General Election, that M.P.s shall not offer to the public their respective policies and services, but should each offer to work for a cut price to encourage competition and keep prices down. I think the Pharmaceutical Society should make a statement (they have been rather good on that lately) that there are a large number of chemist shops with takings under £10,000 who are helping to subsidise the National Health Service and who, under legislation abolishing price maintenance, would be wiped out of existence; and that even the bigger shops would find it difficult to continue. If non-maintenance of price control were implemented, pharmacy must come out of the N.H.S. scheme as a whole. Let us take the blinkers off for once. Nobody else will carry the scheme at the price, and if anyone has any illusions about treatment, let him look at the way opticians are being treated. Their 5 per cent. settlement terms have been passed on to the Government, and now comes a 20 per cent. cut in dispensing fee if the customer chooses a

different frame from the specified one. Have we forgotten our 0.07d.? Unless concerted action is taken now, we shall find ourselves all working for the "big boys," and the Pharmaceutical Society, too, will be doing as it is told by them.

H. G. A. CRIPPS,
Hitchin

Literary Errors

SIR,—It is unfortunate that the quotation from Mr. Graham Greene's entertaining diversion "The Ministry of Fear" (*C. & D.*, December 26, 1959, p. 589) contained two misprints and an error of fact. Mr. Greene's name was incorrectly spelt, and if the reference to "Beyers" was intended to refer to Bayer Products, Ltd., Mr. Graham Greene himself committed an error, as even seventeen years ago, when the book was first published, this company had ceased to have any association whatsoever with Farbenfabriken Bayer of Germany.

R. S. PRICE, *Public Relations Officer*,
BAYER PRODUCTS, LTD.,
Kingston-upon-Thames

MANUFACTURERS' ACTIVITIES

Drinks for Rallyists.—For the 1960 Monte Carlo rally, Lucozade and Ribena is being made available to all competitors at the Glasgow scrutineering and control posts, and British teams starting from the Continent will receive their supplies before they leave England. Supplies of Lucozade will be available at selected points on the Continent, and hot Ribena will be served to British competitors in Monte Carlo before their midnight start on the mountain circuit trials. Manufacturers of Lucozade and Ribena are Beecham Foods, Ltd., Great West Road, Brentford, Middlesex.

Yacht Racing Trophy.—As part of a long-term bid to regain the America's Cup for Britain, the International Hornet Class Association is sponsoring a match competition in sailing, a contest new to this country (two competitors only take part). Mr. D. O. Collins (chairman, Goya, Ltd., makers of Corvette toilet preparations for men), himself a well-known helmsman and one of few in the country to hold a Yacht Master's certificate, is presenting to the winner a suit of Terylene sails and a Corvette match racing trophy. The cup was exhibited at the National Boat Show held at Earls Court, London, recently.

CAN YOU READ IT?

Shirley Penclun
3 copies 2/6

"LUCKILY," said the London chemist who sent in the prescription here reproduced, "my customer gave me a clue confirming my reading of the prescription. . . . I wonder what the pricing bureau will pay us for?"

C. H. BOEHRINGER SOHN NOW INTRODUCE

a mild analgesic of completely new chemistry

to supersede aspirin and paracetamol

Valtorin is the outcome of six years' planned research and development and ranks as the most outstanding new chemical compound in the field of mild analgesics since the advent of aspirin in 1898. The active principle of Valtorin is one of the benzmethoxazones, a group hitherto unused in clinical medicine. *Its safety factor is exceptional.* With a therapeutic index of 1:1,000 it is 6 times safer than aspirin and more than 3 times safer than paracetamol. *Prolonged clinical trials have shown that the pain-relieving properties of Valtorin are superior to and 50% longer-acting than aspirin, paracetamol and codeine. Valtorin is also a potent anti-pyretic and is presented in special flash-dispersal tablets.*

Unlike aspirin Valtorin does not irritate the intestinal mucosa or cause gastric haemorrhage. Constipation, blood dyscrasias and salicylism are also absent.

SALES-POTENTIAL AND STOCKS. The whole of the Valtorin productive capacity has, up to the present, been solely devoted to supplying hospitals. It is now available to general practitioners and in view of the tremendous sales-potential of Valtorin, chemists are earnestly advised to ensure that their stocks are adequate to meet the expected high demand.

PACKS AND PRICES

	TRADE AND N.H.S. PRICE	RETAIL PRICE
Box of 6	1s. 4d.	2s. 4d. (including 4d. P.T.)
Box of 12	2s. 6d.	4s. 4½d. (including 7½d. P.T.)
Dispensing pack of 100	15s. 0d.	26s. 3d. (including 3/9d. P.T.)
Dispensing pack of 300	40s. 0d.	70s. 0d. (including 10s. P.T.)

VALTORIN*

2-(β-chlorethyl)-2, 3-dihydro-4-oxo-(benzo-1, 3 oxazine) with phenacetin



Manufactured and distributed in the U.K. by Pfizer Ltd., Folkestone, Kent for
C. H. BOEHRINGER SOHN, INGELHEIM am RHEIN,
Registered proprietors of the Trade Mark

* Regd. Trade Mark



Now, you can thrive on

CASH • SALES • PROFITS

stock and display

THESE RIGHT-ON-THE-BUTTON ADS

are booked to run and run and run in the **Express, Mirror, Mail, Telegraph, Radio Times** and main provincial press.

PLUS HIGH-FREQUENCY TV SUPPORT

in the London, Northern, Midland, Scotland, Tyne-Tees and Wales/West Country TV areas.



Now, when your throat must endure
GERMS COLD DAMP

You need the sure protection of 'SAVLON' Antiseptic Lozenges. They destroy harmful germs without upsetting delicate tissue, and give speedy relief to a painful throat. Suck a soothing 'SAVLON' Lozenge to resist winter infections.
2/5d for 'SAVLON' Lozenges is money sensibly spent. From your chemist.

Savlon
antiseptic lozenges

ICI



Now, when your throat must endure
GERMS SMOG COLD

You need the sure protection of 'SAVLON' Antiseptic Lozenges. They destroy harmful germs without upsetting delicate tissue, and give speedy relief to a painful throat. Suck a soothing 'SAVLON' Lozenge to resist winter infections.
2/5d for 'SAVLON' Lozenges is money sensibly spent. From your chemist.

Savlon
antiseptic lozenges

ICI

AND WINTER JOINS IN EVERYWHERE

ORDER NOW - FAST DELIVERY - FAST PROFITS!

Savlon

antiseptic lozenges



Pharmaceuticals Division Imperial Chemical Industries Limited Wilmslow Cheshire.

CLINICAL
STUDIES
PROVE
therapeutic
value of

Niamid
in the
management
of

DEPRESSION

ANGINA
PECTORIS

INOPERABLE
ALIGNANT
STATES
and other
conditions
characterised
by chronic
intractable
pain

MENTAL
DEFECT

A NEW COMPOUND OF OUTSTANDING SAFETY



for use in a widening range of conditions

AT THIS MOMENT doctors all over the country are being told about Niamid—through personal representation and in the pages of the medical Press. Niamid is already being prescribed, and as its effectiveness coupled with its complete safety and lack of toxicity become more and more widely known, demands on you to dispense Niamid are likely to become heavy. Stocks are available now through the usual channels.

Here are the average recommended dosages of Niamid. Fuller details about this new product of Pfizer research are contained in the monograph "Niamid". Copies are available on request.

INDICATION	AVERAGE DOSAGE
Mild or moderate depression	1 x 25 mg. tablet 3 times a day
Severe depression	2 x 25 mg. tablets 3 times a day
Angina pectoris	1 x 25 mg. tablet 3 times a day
Inoperable malignant states and other conditions characterised by chronic intractable pain.	2 x 25 mg. tablets 3 times a day

Tablets	25 mg.	bottle	30
Tablets	25 mg.	bottle	100
Tablets	25 mg.	bottle	500
Tablets	100 mg.	bottle	30
Tablets	100 mg.	bottle	100

Niamid is marketed in the United Kingdom by

HARVEY PHARMACEUTICALS

A DEPARTMENT OF PFIZER LTD. FOLKESTONE





The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

Late but Worth Waiting For

THE Publisher has been flattered—though distressed—to receive a bombardment of inquiries from regular users of the *C. & D. Diary and Year-book* as to why, at the end of the life of the 1959 edition, they have been unable immediately to switch to its successor. The answer, while greatly regretted, is simple. For years it has been a point of pride to send out each new *Year-book* in ample time for a good start at the New Year, but the long arm of the 1959 printing dispute imposed a curb which not all the spurs of extra effort subsequently have been able fully to overcome. The wonder is, perhaps, that the delay is not greater, but we are happy to announce that dispatch has started from the binders and that within a short time every subscriber should be in possession of his copy.

To practising pharmacists the 1960 *Year-book* will have a special usefulness because it brings together for the first time in any publication the various statements, now quite numerous, which the Council of the Pharmaceutical Society has issued from time to time for the guidance of its members. Many of them will remain current, in all probability, for a very long time to come, but it is worth remarking that, since the pages went to press, the Poisons Board has been requested to consider the central-nervous-system drugs that are the subject of one of the Statements, and that any action the Board takes may render obsolete overnight the moral authority which that statement at present possesses, substituting more formal controls for some or all of the drugs listed. That, of course, can only be matter for conjecture at the moment.

Since the force of the various Council statements depends directly on the extent to which they are implemented by Statutory Committee action, it is appropriate that a brief note on the Committee, its terms of reference and present membership is included, for ready reference at any time.

In their business activities retail pharmacists will be helped by the advice on "Preparing Balance Sheets and Accounts," first published in the *C. & D.*, as well as by the reinclusion of articles on stocktaking, goodwill, and purchase tax.

For hospital pharmacists the new feature that will appeal is the outline of their legal responsibilities, a subject on which precise statements have been hitherto all too rare.

Those concerned in manufacture will find two useful small items, in addition to the usual directories: a note on the duties imposed on tablets imported into the

Republic of Ireland; and a paragraph about the statutory maximum limit on arsenic in foods.

Revisions of the standard features of the *Year-book* have, of course, been fully carried out, and the resulting production is, we are confident, well up to previous levels of reliability, usefulness and—especially as to its advertisements—attractiveness. With the publication of the *Diary and Year-Book* we can—touch wood—hope that we are now fully back to normal after the setbacks of the 1959 dispute.

Hopes and Fears for 1960

PROBABLY no other profession has its qualified members rightfully employed in so many diverse ways as pharmacy.

The retail pharmacist who has concentrated on his counter trade to build up his business cannot but be anxious at the increasing extent to which trade that has legitimately been his is being taken by others whose training has been slight or non-existent and who can take no real responsibility for, and give no service with, the goods in the categories referred to which they supply. There are also the problems, created by advertising, caused by customers who appear to consider themselves able to differentiate between the pharmacological effects of similar or widely differing compounds and their clinical applications. The same pharmacist, finding difficulty in keeping staff in face of a five-day-week in much of industry, and unable to obtain the services of a *locum tenens* so that he can look forward to a holiday, must feel a little apprehensive about his future. That may be looking a little too far ahead, for in the next few months the shadow of the Budget and its potential effect on purchase-tax rates will slowly but surely depress trading activity. That alone with a turnover already threatened by those who would abolish resale price maintenance, indicates a worrying period ahead.

The pharmacist in hospital is no less anxious. His staff problems are possibly equal to those of his colleagues in retail, but they are probably not offset by a corresponding standard of living. Meanwhile he anxiously awaits the promised and overdue revision of his salary, a revision that apparently has the approval of most people concerned. Even the Minister of Health did not dispute the facts, recently, though it is known that the subject does not raise any enthusiasm in the sessions of the appropriate Whitley Council Committee.

In wholesale establishments, pharmacists, surrounded by the tide of new "ethical" (and non-ethical) preparations, may apprehensively doubt if the available shelf space will ever be adequate, and whether delivery schedules will ever be achieved unhampered by last minute requests.

The pharmacist on the road, often combining the dual capacity of salesman and counsellor, also sees the forthcoming year as one of intensified competition, in which truth and gimmick will be applied together to convince, cajole or coerce. The representative's problems of mobility increase, and his car is apt to become an encumbrance in towns, yet the number of his calls must not be allowed to fall or he will be called to account.

In industry the pharmacist concerned with research or development has his headaches, too, as a manage-

ment ever mindful of the necessity to keep up with the Jones's (Ltd.) compels ever higher standards of per-staff problems are possibly equal to those of his formance. Like his sales colleagues, the pharmacist in marketing or publicity units seeks the crock that will turn to gold.

Pharmacists in board rooms—fewer, alas, than is desirable—find it harder, as competition grows fiercer, to convince their colleagues that pharmacy has professional duties and ideals and is not merely a distribution system.

Pharmacists in Government Departments who sometimes must feel a growing sense of being considered a target for all, must often wonder how much more work will have to be done to enlighten others about the economics of healing in a welfare State.

As the rather fewer pharamists in trade and professional organisations face the future, they must hope their loyalties will not be strained as they seek means to ensure that members keep in step.

Those pharmacists who are concerned with teaching may be viewing with no little apprehension the ever-widening expanse of science making its impact on pharmacy and the problems thus created of imparting the details of the techniques to those around them.

The locum pharmacist, now in demand, will be trying to make allowances in advance for those who do not adequately prepare for his coming or who do not arrange their stocks in a logical manner.

Those pharmacists who are members of the Council of the Pharmacetical Society who endeavour, but somehow fail, to carry their electors with them, must wonder what more must be done to encourage faith among their constituents.

And last of all there is the splinter group of pharmacists in journalism who may lie awake at night tormented by pages to produce at speeds that may afford too little time for reflection, and whose nightmare is the unnoticed "double meaning" that may slip through.

Possibly all this indicates a rather pessimistic future in pharmacy. At this time of the year a little pessimism must be offset by a maximum of optimism, and negative attitudes replaced by positive outlooks.

Old ideas, however venerable, must be re-examined and their value reassessed. But let us all ponder that the profession cannot gain in stature without each individual section making positive contributions. Those contributions will not always be in the same manner by each person. Possibly the strength of pharmacy can be derived from the very diversity of the calling. When there are vital problems on hand there is—or should be—the widest of experience available to ensure that the answers forthcoming are the correct ones, and that is a consoling fact if one was needed for 1960.

Wages by Cheque

THE Government has introduced a Bill to amend in certain respects the Truck Acts, 1831 to 1940, and other statutes that require wages due to an employed person to be paid in cash.

The Bill provides that an employed person, if he so requests in writing, and if his employer agrees, may have his wages paid otherwise than by cash. The method may be by crediting his bank account with the amount due, or by postal order, money order or cheque. Nothing in the Bill as drafted operates so that an

employed person may be required to make any request that his wages should be paid otherwise than in cash.

Before payment is made under the systems proposed in the Bill, the employer must furnish to the employee a written statement showing his gross wages, the amount of any deductions, and the net amount payable. A clause in the Bill enables the arrangement under which wages are paid under the proposed systems to be terminated by either party at not less than fourteen days' notice in writing.

The Bill allows an employer, without any request from the employee, to pay any wages by postal or money order if the employee is absent from his "pay station" and the employer has grounds for thinking that the absence is either because of illness or injury, or because his work has required him to be elsewhere.

There are clauses controlling the methods that must be adopted in exchanging notes and statements between employer and employee.

The provision relating to the payment of wages when the employed person is away on work or is sick would come into operation one month after the passing of the Bill. The rest of the Bill would come into operation after the expiration of six months, except that, before the provision permitting wages to be paid by cheque came into force, an order of the Minister of Labour would be necessary.

Thus the Bill would allow the Minister of Labour to approve payment of wages by cheque when he considered, or was advised, that conditions for the change were appropriate.

100 YEARS AGO

EIGHTEEN FIFTY-NINE

From the C. & D., January 14, 1860

THE old year that was laid with its ancestors in the sepulchre of the Past, while the midnight chimes were clamorously welcoming the advent of this paradoxical 1860, will, we suspect, give no little trouble to those unborn historians who shall attempt to frame its epitaph. What was the most striking characteristic of our departed friend? By what spirit was it most influenced? What old-world weeds were uprooted, and what seeds of future progress were sown, during the 365 days of its existence? These questions cannot be answered by us—the contemporaries of 1859; and will, perhaps, never be more than guessed at by our descendants. It is no easy task to get at the meaning of a *man's* life; indeed, all the biographies, worthy of preservation, that have ever been written can be counted on one's fingers. How much more difficult, then, must it be to discover the relation between the crowded and seemingly disconnected events that make up the life of a *year*. We will not hazard an opinion as to whether the epitaph, yet to be written, on 1859, will be eulogistic or condemnatory. In the words of the great poet of our day:—

"We doubt not thro' the ages one increasing purpose runs,

And the thoughts of men are widen'd with the progress of the suns;"

and we are content to believe the events of the past year have helped us towards that perfect civilisation which sage and singer have pronounced to be the goal of humanity. . . .

Mr. Walpole's Bill, "To regulate the Keeping and Sale of Poisons," after having suffered much from cruel treatment, was brought to an untimely end by the dissolution of Parliament following the defeat of Lord Derby's ministry on the Reform Bill. The Bill, in its original form, though of little use, was, perhaps, less offensive than its predecessors; but before its demise it had fallen away to a mere skeleton, and all parties agreed in regarding its annihilation as a happy release.

The Smethurst case, which made so much noise in England during the latter half of the past year, has drawn the attention of the public to certain defects in our criminal law, which we trust ere long to see remedied.

DRUGS may be introduced into the body for one of three main reasons. They may exert a superficial local effect on contact with the skin or mucous surface; they may penetrate the membrane and produce a localised action in the underlying tissues; or finally, they may be administered by a variety of methods to effect systemic absorption. Consideration of those factors and of the character of the particular drug concerned is of importance to the pharmacist in the formulation of suitable preparations. The present article will be followed by others in which the methods by which drugs are used and administered will be reviewed, with particular reference to formulation.

THE DRUG AND THE ROUTE

A review of methods of administration

J. C. GREENLEAF, M.P.S., and J. W. HADGRAFT, F.P.S., F.R.I.C.
(Pharmaceutical Department, Royal Free Hospital, London, W.C.1)

I. The rectal route

RECTAL medication is frequently adopted in order to obtain a purely local action. In the relief of hæmorrhoids, for example, astringent drugs such as tannic acid and hamamelis have been administered traditionally in the form of suppositories. For that purpose they may be combined with protective substances such as bismuth subgallate and zinc oxide.

Evacuant enemas may also be mentioned as being used for a local action in the bowel: they have been used without modification for many years and include soap enemas and glycerin. More recently an enema containing sodium acid phosphate, 16 per cent., and sodium phosphate, 6 per cent., has been found an effective alternative with certain practical advantages.

The local anti-inflammatory action of hydrocortisone is utilised in the treatment of ulcerative colitis. For that purpose a solution containing hydrocortisone hemisuccinate sodium, 100 mgm. in 100 mls of normal saline, is administered by slow rectal drip. Alternatively suppositories containing hydrocortisone acetate or hydrocortisone hemisuccinate sodium may be used. The water-soluble succinate is preferred for the purpose since it diffuses and spreads on moist mucous surfaces more readily than the insoluble salts of hydrocortisone. Suppositories containing prednisolone phosphate have been used similarly.

In order to exert their effect in the rectum, local anaesthetics must be capable of penetrating the membrane and reaching the sensory nerve endings. Substances capable of acting in that way include cocaine, benzocaine, cinchocaine and lignocaine; they have a purely palliative action and their usefulness is limited. They are used mainly in the form of suppositories and ointments, and may be combined with astringent drugs.

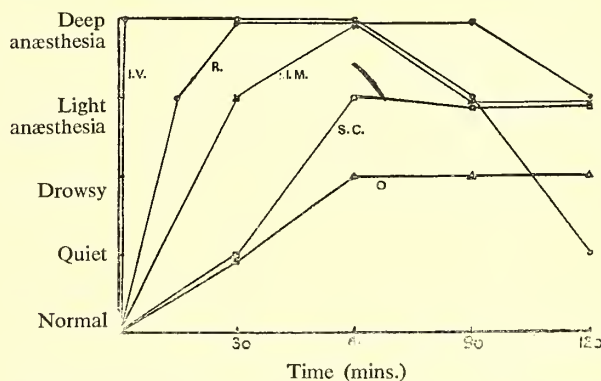
Rectal Absorption

The rectal route as a means of obtaining systemic absorption has been used more commonly on the Continent than in this country, though it has been found of value for drugs which are inactivated in the stomach or which are liable to cause gastric irritation. The method may also sometimes be used with advantage for the administration of drugs to infants and young children.

It has been suggested (1, 2) that drugs administered rectally are more effectively absorbed because they avoid passage

through the liver and are thus not inactivated, as they are when given by mouth. That view is dependent upon the position in the rectum from which absorption takes place, and does not appear to be wholly tenable in the light of more recent investigations.

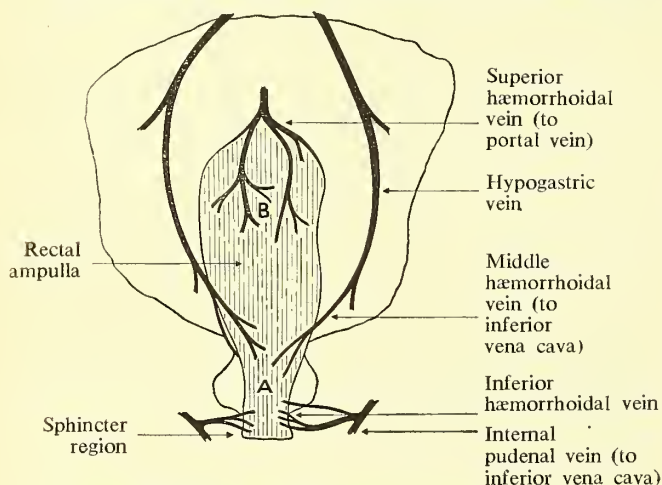
Drugs absorbed from the rectum pass into the general circulation by two main pathways involving the superior, middle and inferior hæmorrhoidal veins. The fraction passing into the middle and inferior hæmorrhoidal veins is transported directly into the general circulation through the inferior vena cava without passage through the liver. The portion which passes into the superior hæmorrhoidal vein is carried via the portal system to the liver and finally into the general circulation through the sub-hepatic vein. The superior hæmorrhoidal vein draws its blood supply from the sphincter region and it seems, therefore, that the route by which a substance is absorbed from a suppository depends on the position in the rectum at which the suppository is completely melted. It has been shown that when a suppository is inserted into the rectum it does not remain in contact with the sphincter region but is pushed up into the rectal ampulla by contractions of the sphincter muscles (3).



ADMINISTRATION OF PENTOBARBITONE SODIUM TO RABBITS: Pentobarbitone sodium is well absorbed on rectal administration and the graph shows that it produces a more rapid response than either subcutaneous or intramuscular injection. I.V.=intravenous, R=rectal, I.M.=intramuscular, S.C.=subcutaneous. O=oral. Doses: Intravenous, 30 mgm. per kilo of body weight; other routes, 45 mgm. per kilo of body weight.

Work has been carried out on the absorption of drugs from the rectum in animals and man using radioactive tracer techniques (4, 5) and methods involving measurements of the time taken for absorbed substances to appear in the urine (6). At the present time it seems reasonable to conclude that although a drug administered rectally avoids only partially the possibility of inactivation in the liver, it is likely to be more rapidly absorbed than from the oral route, since it comes directly into contact with the highly absorbent mucosa of the rectum and avoids the delay resulting from passage through the stomach. On the other hand, rectal absorption has been described as uncertain and irregular (7). Irritant drugs are liable to cause local irritation and premature expulsion of the suppository or enema.

Recent investigations of the absorption of drugs from the gastro-intestinal tract have indicated (8) that organic substances are most effectively absorbed in their non-ionised, lipid-soluble forms. The rectal mucosa has a slightly alkali-



BLOOD SUPPLY OF RECTUM AND ANUS: Substances absorbed from region marked A pass into the inferior vena cava and avoid passage through the liver. Substances absorbed from region B pass into the portal vein to the liver.

line pH value and in those conditions the ionisation of weak organic bases is depressed, raising the concentration of the non-ionised form of the drug. Strong bases and acidic drugs, on the other hand, become more highly ionised. It is reasonable, therefore, to suppose that weak organic bases are more readily absorbed from the rectum than either strong bases or acidic drugs.

A number of alkaloidal drugs have been administered by the rectal route. Morphine sulphate may be given in that way as an alternative to subcutaneous injection. Morphine salts are well absorbed from the rectum, and the dose included in suppositories is usually of the same order as that given by injection. Suppositories of morphine were included in the British Pharmacopœia, 1948, which specified a dose of gr. $\frac{1}{4}$ of morphine hydrochloride in an oil-of-theobroma basis.

Aminophylline is sometimes administered rectally in the treatment of asthma. That substance is particularly liable to cause gastric irritation, and is very variably absorbed from the gastro-intestinal tract. Rectal instillation of an aqueous solution has been stated to produce as rapid an effect as intravenous injection of the drug (9) with greater safety. Absorption from suppositories is less certain, but aminophylline in that type of preparation is included in the United States Pharmacopœia.

Of the newer drugs reserpine, chlorpromazine, khellin and phenylbutazone have been given rectally. Reserpine in suppositories each containing 3 mgm. has been stated to produce a rapid and sustained hypotensive effect due to its slow diffusion from the rectum (10). It should be pointed out, however (a) that that observation is based on clinical experience and (b) that the action of reserpine is normally

sustained and in fact may persist even when the drug has been eliminated. The use of chlorpromazine suppositories each containing 25 mgm. or 50 mgm. may be of value when vomiting prevents administration of that drug by mouth.

Recent clinical investigation has shown that the rectal route may be of value in the administration of phenylbutazone to patients suffering from rheumatoid arthritis when oral therapy is contraindicated because of peptic ulceration; the serum levels obtained from the use of suppositories of phenylbutazone were comparable with those obtained when the drug was given orally.

A number of sedative and hypnotic drugs appear to be adequately absorbed from the rectum. Paraldehyde may be given in the form of an enema dissolved in either normal saline or arachis oil. Chloral hydrate in suppositories may be useful for sedation of children. The barbiturates are well absorbed from the rectum, and suppositories of quinalbarbitone sodium may be given to children. Thiopentone sodium may be given as an enema as a basal anaesthetic (11). Methylpentynol capsules have been given rectally, thirty minutes after an evacuant enema, in order to reduce anxiety during labour (12).

The antibiotics are generally inadequately absorbed from the rectum, and chloramphenicol is the only member of that group which is sufficiently well absorbed for the rectal route to be used when other methods of administration are not possible. Even with chloramphenicol, however, absorption from the rectum is variable, and now that palatable oral suspensions are available for children the route is seldom, if ever, used.

Penicillin has been stated to be absorbed rapidly by the rectal mucosa (13), but its destruction by the penicillinases formed by organisms in the bowel render the rectal route unsatisfactory unless the doses are large. Streptomycin is only poorly absorbed from the rectal mucosa. The administration of aureomycin hydrochloride rectally to children, either in punctured capsules or in suppositories, indicated that the route was unsatisfactory (14). Even when large doses (of the order of 80 mgm. per kilo of bodyweight) were given, there was marked variability in the serum levels obtained, and in most patients they were inadequate. There was also evidence of mucosal irritation resulting from the use of the drug.

Preparations for Rectal Administration

Liquid preparations for rectal administration are usually simple aqueous solutions or suspensions of drugs, which offer little scope for pharmaceutical formulation. Enemas intended to be retained to permit absorption of the drug should be of small volume (up to 100 mls). Insoluble substances may be suspended in a 2.5 per cent. mucilage of starch or by means of methyl cellulose. The following formula exemplifies the use of the latter substance for the preparation of succinylsulphathiazole enema:—

Succinylsulphathiazole	10 gm.
4 per cent. mucilage of methyl cellulose	30 mls
Purified water	to 60 mls

That enema is sometimes used for pre-operative preparation of the bowel as an alternative to oral administration of succinylsulphathiazole.

A recent development has been the manufacture of enemas in single-dose disposable plastic containers. A phosphate evacuant enema is available in that form but, whilst it was shown in a comparative study of four different evacuant enemas to be time-saving in administration (15), it is doubtful whether its relatively high cost allows it to be an economic possibility in hospital practice. It was suggested recently that use of one of the new "contact" laxatives such as bisacodyl (Dulcolax) is equally effective and less time-consuming than the traditional enema technique (16).

Suppositories

Suppository bases may be divided into three main types:

- (a) Water soluble; (b) fat-soluble; and
- (c) self-emulsifying.

The oldest type of water-soluble base is glycogelatin, which remains in the British Pharmacopœia as the basis of glycerin suppositories. Used for their evacuant action, the suppositories should be freshly prepared, as they become insoluble on ageing. Because of its evacuant action, glycogelatin is an unsatisfactory medium for medicaments intended to be absorbed.

The water-soluble polyethylene glycol compounds (Macrogols) may be used in the formulation of suppositories. Since they are soluble, such bases need not melt at body temperature; they absorb moisture in the rectum and release the drug in solution. A suitable combination for use as a suppository base is as follows:—

Polyethylene glycol 6000	40
Polyethylene glycol 1540	30
Polyethylene glycol 400	30

Polyethylene glycol bases have a distinct practical disadvantage when the suppositories are prepared by the fusion method. On cooling, the centre of the suppository is liable to contract, leaving a central hole. To avoid that risk the mass should be cooled to as low a temperature as possible before pouring the suppositories. By using the cold compression method of preparation the disadvantage is avoided.

Fat-soluble bases must melt at body temperature in order to release the medicament and permit its absorption. Oil of theobroma has been used as a suppository base for many years because its melting point is just below body temperature and because of the absence of any irritant effects on the rectal mucosa. It has, however, a number of practical disadvantages. If heated much above its melting point it is transformed into a β form which has a lower melting point and which forms unsatisfactory suppositories. The melting-point of oil of theobroma is lowered by the inclusion of substances such as chloral hydrate, phenol and camphor, and suppositories containing those substances may be difficult to prepare. Lubrication of the mould is necessary when oil of theobroma is used to prepare suppositories by the fusion method. Finally, oil of theobroma does not absorb water and is unsuitable for use when it is required to incorporate an aqueous solution of a drug. However, the addition of 10 per cent. of emulsifying wax to oil of theobroma permits the incorporation of aqueous solutions (17).

Hydrogenated vegetable oils have been suggested as an alternative to oil of theobroma (18). They are obtained by passing hydrogen through the oils heated to a temperature of about 200° C. in the presence of a suitable catalyst. Under those conditions the unsaturated glycerides present in the original oil are fully reduced, and the resulting mixtures of saturated glycerides are solid waxes at room temperature. Compounds of that type include hydrogenated arachis oil and hardened palm-kernel oil. They are more stable than oil of theobroma on heating and, in addition, have the useful property of contracting on cooling, thus rendering unnecessary the lubrication of the mould when the fusion method is used. Hydrogenated oils are incapable of absorbing aqueous solutions, but that disadvantage is overcome by the inclusion of a small proportion of glyceryl monostearate. Such combinations are available as proprietary preparations. Massapol consists mainly of the triglyceride of lauric acid with a small amount of glyceryl monostearate. Imhausen* suppository compound is available in a number of grades and is described as a "triglyceride and a small amount of the mono-glycerol ester of a fatty acid as emulgent."

Comparisons have been made of properties of Imhausen suppository compound H with those of oil of theobroma:—

(a) MELTING POINT.—The melting points of Imhausen suppository compound H and of oil of theobroma were determined by the method of the British Pharmacopœia. The results were:—

Imhausen suppository compound H	37° C.
Oil of theobroma	34° C.

(b) EFFECT OF OVER-HEATING.—A sample of Imhausen suppository compound was heated over a water-bath for

thirty minutes, allowed to reset, and the melting point immediately determined. The material was found to be unaffected by the prolonged over-heating whereas oil of theobroma, subjected to the same treatment, remained liquid at room temperature (20°).

(c) MELTING TIME AT BODY TEMPERATURE.—Two test-tubes each containing 10 mls of purified water were placed in a thermostatically controlled water-bath at 36.5° C. and allowed to reach the temperature of the bath. A 15-grain suppository of Imhausen suppository compound H was placed in one tube and a similar suppository of oil of theobroma in the other. The time for the suppositories to melt completely was noted:—

Imhausen suppository compound H	18 minutes
Oil of theobroma	7 minutes

(d) ABSORPTION OF MEDICAMENT.—Animal experiments were performed to compare the absorption of atropine sulphate from suppositories made with Imhausen suppository compound H and with oil of theobroma. Suppositories of the two bases containing atropine sulphate were administered to rabbits, and the absorption of atropine determined by measurement of the eye-pupils. Unfortunately there was considerable individual variation in the response of the animals, so that a statistically valid comparison was not possible. However, sufficient information was obtained to indicate that absorption from Imhausen suppository compound H was at least as good as that from oil of theobroma.

Furthermore it has been reported elsewhere (18) that no untoward effects were noted when Imhausen suppository compound H was applied to the epidermis (rabbit), the rectal mucosa (guinea pig) or the internal organs (mice) after daily ingestion.

Suppositories were prepared containing the range of drugs commonly used in that type of preparation. No incompatibilities were observed in the use of Imhausen suppository compound H for the preparation of the suppositories included in the British Pharmaceutical Codex and British National Formulary. The Imhausen base is of particular value for the preparation of chloral-hydrate suppositories. It was possible to prepare satisfactory 15-grain suppositories each containing gr. 3 of chloral hydrate and melting at 32° C. Corresponding suppositories made with oil of theobroma were too soft to remove from the mould.

(e) GENERAL OBSERVATIONS.—Imhausen suppository compound sets more rapidly than oil of theobroma and is time-saving in the manufacture of large batches. It contracts on cooling, leaving the suppository moulds clean without the use of a lubricant. That has enabled suppositories to be manufactured by a process in which they are poured directly into plastic moulds. The plastic containers each containing six suppositories form a suitable package in which the preparations are issued and the handling of unwrapped suppositories is avoided. Unfortunately, such plastic moulds are not, we think, available at present in retail or hospital practice.

Occasionally suppositories made with Imhausen suppository compound split spontaneously, especially if they are poured into previously chilled moulds. Splitting may occur, however, when the moulds are not chilled and it has been suggested that it may be overcome by the addition of 1 in 2,000 of polyoxyethylene sorbitan mono-oleate (19). It may be pointed out, however, that the splitting is a rare occurrence. It has not been found to be a serious problem in the routine preparation of a large number of suppositories.

In the formulation of suppositories both the properties of the drug and the type of effect required are important considerations affecting the choice of a suitable basis. If a superficial effect is required, the basis must melt and spread readily over the mucous surface of the rectum. When absorption is required, release of the drug from the suppository is an important factor: it will depend upon the solubility of the drug in the basis. Useful information may be obtained by determining the partition of the drug between the suppository base and an aqueous solution, though systemic absorption in animals does not necessarily correspond to the results of *in vitro* experiments.

* Imhausen suppository compound is also known as Witten suppository compound.

The absorption of acetylsalicylic acid from different suppository bases was investigated by determining the plasma concentrations following rectal administration (20). In that investigation absorption from glycogelatin was not statistically different from that obtained from oil of theobroma.

Recent work on the release of drugs (21) has indicated that substances are released more readily from fatty suppository bases if they are insoluble in the base. The rate of release is also dependent upon the length of time taken for the base to reach its clear melting-point since, above that point, the rate of diffusion is extremely rapid and frequently approaches that of an aqueous solution. In general, water-soluble bases release drugs less quickly than fatty bases.

From these findings, it follows that when a rapid effect is required, a drug should be incorporated as a suspension in a fatty base in which it is insoluble. The base should have a clear melting-point not exceeding 36.5° C., and as small a melting interval as possible. If a delayed effect is required, a base in which the drug is soluble should be chosen.

REFERENCES

- (1) Zunz, E., "Element de Pharmacodynamie Generale," Paris, 1930.
- (2) Rovall, C. J., *Bull. Soc. Pharm.*, 1937, **44**, 36.
- (3) Gradnick, M. B., "Absorption of Medicaments from the Rectum"—*Fédération Internationale Pharmaceutique*, London, 1955.
- (4) Quevauvillier, A., and Jund, Y., *Ann. Pharm. Franc.*, 1951, **9**, 593.
- (5) Canals, E., Marignan, R., and Cordier, S., *Bull. Soc. Pharm.*, Marseille, 1952, **3**.
- (6) Hofmann, H., and Hornbogen, V., *Pharm. Zentralhalle*, 1950, **89**, 369.
- (7) Haag, H. B., "Drug Research and Development," New York, 1948.
- (8) Brodie, B. B., and Hogben, C. A. M., *J. Pharm. Pharmacol.*, 1957, **6**, 345.
- (9) Barach, *Bull. N.Y. Acad. Med.*, 1944, **20**, 528.
- (10) Ghareh, *Lancet*, 1958, **1**, 378.
- (11) Mark, Fox and Bernstein, *Anesthesiology*, 1949, **10**, 401.
- (12) Whitthouse, *Lancet*, 1958, **1**, 743.
- (13) Ravina, A., and Pestel, M., *Presse med.*, 1954, **9**, 195.
- (14) Siegal, A. C., Nicholson, G. H., and Cook, C. W., *New Eng. J. Med.*, 1952, **246**, 447.
- (15) Page, S. R., jun., Riley, C. K., and Haag, H. B., *J. Amer. med. Ass.*, 1955, **157**, 1207.
- (16) Ruttier, A. G., *Lancet*, 1959, **1**, 1173.
- (17) Rae, J., *Pharm. J.*, 1942, **148**, 13.
- (18) Soulsby, J., and Hopkins, S. J., *ibid.*, 1956, **125**, 157.
- (19) Devereux, C., *ibid.*, 1956, **125**, 183.
- (20) Cachillo, A. F., and Hassler, W. H., *J. Amer. pharm. Ass., Sci. Ed.*, 1954, **11**, 683.
- (21) Von Eckert and Mussalman, *Pharm. Acta, Helv.*, 1958, **33**, 649. *per Amer. J. Hosp. Pharm.*, 1958, **12**, 1092.

NEW BOOKS

Data for Biochemical Research

R. M. C. DAWSON, D. C. ELLIOTT, W. H. ELLIOTT, and K. M. JONES. *Clarendon Press: Oxford University Press*, Amen House, Warwick Square, London, E.C.4. 9¼ × 6½ in. Pp. xiii + 299. 63s.

BIOCHEMICAL research workers, by the nature of their subject, will welcome a comprehensive data book. Tables of biochemical compounds are supplemented by tables on enzymes; buffers; ion-exchange resins; and isotopes. A small section deals with manometry, and nomograms are included for manometer constants and ammonium sulphate solutions.

Science in Industry

C. F. CARTER and B. R. WILLIAMS. *Oxford University Press*, Amen House, Warwick Square, London, E.C.4. 8¾ × 5¼ in. Pp. ix + 186. 21s.

THE book incorporates the third of a series of reports written by the Science and Industry Committee set up by the British Association for the Advancement of Science, the Royal Society of Arts and the Nuffield Foundation. The present volume contains suggestions for policy and action by industry and Government which may assist in the fruitful application of science. The first part of the book contains suggestions for management in small and large companies on such matters as the communication of scientific knowledge, the use and conduct of research and development projects and the finance of innovation. The second part discusses the ways in which the Government might make it easier for industry by the support of research and policies for taxation, control of restrictive practices, etc.

Onward from Galen

A CURRENT CAUSERIE

A WRITER in the *Economist* (January 2) joins the growing number advocating campaigns for more price cutting. He makes the surprising suggestion that the Government should introduce in 1960 an amending Bill to allow a manufacturer to sue a retailer if he sells goods at more than the recommended resale price, but not if he sells below it. Following Mr. H. E. Chapman's letter to the *Financial Times* on price maintenance (see *C. & D.*, January 2, p. 11), Mr. H. Noble in a letter to *The Times* on January 4, emphasised that the disappearance of the present safeguard on the sale of price-maintained goods, would have profound effects on the National Health Service contract. He stated that much higher rates would have to be paid for this service if, through the development of price cutting, the present economics of retail pharmacy were upset. He pointed out that the return for professional services represented the smallest section of a pharmacist's turnover. Each pharmacist is so vitally concerned that he should ensure that those facts, backed by statistics, are placed before persons in a position to enlighten the Government in the matter.



CHRISTMAS Day 1959 was the centenary of the birth of Georges Denigès, one of France's most distinguished chemists, whose test for morphine, modified by T. H. Oliver, remains one of the best. A native of Bordeaux, where members of his family had lived for several generations, Denigès spent his long working career in that city and held the chair of biological chemistry at the university from 1898 to 1930. His interest in chemistry dated from his childhood when, if he could lay his hands on any books on the subject, he learned them almost by heart. He showed outstanding ability in the chemical examination for the Bachelor of Science degree and was placed in charge of the chemical laboratory at the university—a somewhat demanding post, for it involved daily attendance from 7 a.m. to 7 p.m. for a modest salary of 500 francs a year. He also obtained his bachelor's degree in literature, and his devotion to science never excluded him from the world of letters. Persuaded to study medicine, he graduated in 1884. In 1891 he gained a Doctorate of Science with a thesis entitled *Recherches sur le combinaison de sulfites métalliques avec les amines aromatiques primaires*. In the following year he published *Contribution à l'Etude des Lactoses* and *Principaux fondamentaux de la Théorie atomique*, the latter reaching a sixth edition at his death. In 1892 he was made a *pharmacien de 1^{re} classe* in Paris. Denigès's 791-page *Précis de chimie analytique* was first published in 1898 and ran into many editions, and he was a regular contributor to French chemical journals for more than fifty years. During the centenary celebrations of the *Société de Pharmacie de Bordeaux* in 1934 a plaque was unveiled bearing his likeness and commemorating his long connection with that body. Tributes paid on that occasion referred to his gifts as a teacher and to his services to the university and to the world of chemistry. His teaching was characterised by extreme thoroughness and precision and by a deceptive simplicity.



THE Association of British Pharmaceutical Industry has made available to its members a leaflet "Makers of Medicine," intended for distribution to persons visiting the member's works or laboratories. The idea is a good one, and the story that can be told, and the facts that can be brought to the notice of at any rate a few members of the public, are impressive. They are even being made rapidly out of date, for the figure of £4 millions stated in the leaflet to be spent annually by the British pharmaceutical industry on research has already increased to £5 millions. If there is a criticism to be made of the leaflet it is that the sombre illustrations on the cover contrast unfavourably with the clean, and indeed sparkling, presentation of the text within.

I.P.S.F. THE HISTORY, AIMS AND ACHIEVEMENTS

of the International Pharmaceutical Students' Federation

LOOKING back after the tenth birthday of the International Pharmaceutical Students' Federation, I think that both past and present members of the British Pharmaceutical Students' Association may justly feel proud that the idea of forming an international pharmaceutical students' organisation originated in Britain. The idea of Stephen Challen was carried into practice by Sidney Relph, who were successive secretaries of B.P.S.A. The organisation of I.P.S.F. was fostered by the parent organisation (the International Pharmaceutical Federation) to whom I.P.S.F. owes thanks for its help, both spiritual and material, during the first ten years of I.P.S.F.'s existence.

I.P.S.F. was founded in 1949 with ten member countries: Australia, Austria, Denmark, Eire, Finland, Britain, The Netherlands, Norway, Sweden and Switzerland. Now there are twenty-four member countries (of which nineteen are full members) including the United States and Canada, Turkey, Japan, Israel and Ceylon. Where there is no national organisation, associate membership is offered to the individual organisation of the University (e.g., Alberta Montreal, Toronto and British Columbia in Canada, and the Pharmaceutical Students' Association of Eastern Japan). From the beginning it was the desire to form a professional non-political organisation that would unite national pharmacy students' groups and their members. That is still the most important aim of the Federation together with the encouragement of international understanding by the promotion of exchange of ideas at the annual students' meetings, through correspondence, visits and student-exchange. I.P.S.F. forms a permanent contact between the national and local pharmacy associations of different countries. Support from well established national organisations in turn encourages the development of pharmaceutical-student associations in countries where the national movement is not strong.

Because the Federation members are so widely dispersed, it is necessary that the co-ordinating body—the executive—should be enthusiastic and hard-working supporters of I.P.S.F. The executive consists of the president (Glen Moir, Canada), the vice-president (Rudiger Below, Germany), the secretary-general (Anton Dauen, Holland), the treasurer (Reinhard Scholda, Austria) and three chairmen (for education, student exchange and information) held this year by Eire, Britain and Canada respectively. In addition, the chairman for reception for the annual meeting joins the executive for one year; and the other members are elected for two years at the biennial congress. A council meeting is held each year during the summer meeting and is attended by the executive, delegates from member countries and observers from other countries. A general assembly, which all members may attend, is held during the biennial conference. The council meeting receives reports from the executive and discusses future policy and actions of the Federation. Elections and any constitutional changes are considered at the general assembly.

Forthcoming Reunions

Next year the biennial study tour is being held at Stockholm and in 1961 the next conference is to be held in Germany. Those two functions give an annual opportunity for pharmacy students and recently qualified pharmacists to meet their contemporaries from other countries. Since 1949 about 2,000 students have participated in the annual meetings. In the company of colleagues from all over the world they see their host country at work and play. The friendships formed and the exchange of ideas provide a basis for international understanding between future leaders of pharmacy. It is to be hoped that the additional venture of Austria in organising a winter ski-holiday (see *C. & D.*, November 7, 1959, p. 391) may provide the basis for a winter

gathering of I.P.S.F. members.

During the year liaison secretaries act as I.P.S.F. representatives in the member countries. Those secretaries are usually nominated by the national pharmaceutical students' association and represent students at meetings of the Federation. Special "commissioners" act as co-ordinators of I.P.S.F. in large areas or continents where individual countries do not have full membership of I.P.S.F. In 1959 I.P.S.F. had commissioners for North America, Latin America, India and East Asia, Australia and South Pacific, Eastern Europe and the near East and Africa. A further link between member countries is afforded by the I.P.S.F. *Bulletin*, which is published five times a year. It provides news of pharmacy-student activities throughout the world, information on I.P.S.F. meetings, articles on pharmaceutical education and other related matters. Another I.P.S.F. publication is the detailed biennial report by the chairman of education. The task of the education committee is to collate opinions and information on the subject of pharmaceutical education throughout the world, comparing and contrasting the subjects studied, the number of schools and students, the time taken for study and the conditions of registration as a pharmacist.

Another important facet of the Federation's work is the student-exchange scheme. That enables students or recent graduates to work and observe in foreign pharmacies—hospital, retailing and manufacturing—for periods of one to three months. Host pharmacists provide living expenses and/or pocket money, although the exchange students must pay for their journey themselves. In 1959 exchanges were arranged in Germany, Jugo-Slavia, Canada, Turkey, Britain and other countries. Altogether about sixty exchanges were effected and it is hoped to increase the number next year.—*Anne Savage.*

MEDICAL ABSTRACTS

GUANETHIDINE, A NEW HYPERTENSIVE

A NEW hypotensive drug guanethidine (2-perhydroazocin-1'-ylethylguanidium sulphate) has been reported on by Leishman, Matthews and Smith (*Lancet*, 1959, **ii**, 1044). Twenty-five hypertensive patients received treatment for 3–11 weeks and six of those received hydrochlorothiazide in addition. As a result eighteen cases achieved satisfactory control and one remained unaffected. The drug's hypotensive effect is long-continued and predominantly postural, differing in its greater duration of effect from bretylium tosylate. Hypertensive action without symptoms of parasympathetic blocking occurs but the immunity from that side effect the authors state relies on strictly defined limits of tolerable dosage. Patients responded without side effects when 10–20 mgm. of guanethidine were administered daily with subsequent increases of not more than 10 mgm. at weekly intervals. The effect of the drug was comparable with that of bretylium tosylate though there were no chemical similarities between the two substances.

RECENT RESEARCH

A NEW ALKALOID

VASICINONE, an alkaloid with the formula $C_{11}H_{10}N_2O_2$, and reported to be identical with 2,3-(α -hydroxytrimethylene)-4 quinazolone, is announced by Amin and Mehta (*Nature* (supplement 17), 1959, 184, 1317). It was isolated in crystalline state from the leaves of *Adhatoda vasica*, the crude total alkaloids of which contain primarily vasicine with smaller quantities of vasicinone. The compound has been found to have a bronchodilator activity less strong than recent work upon *Peganum harmala*, from which an alkaloid of atropine. Its laevo form is more active than the dl-form. From partition chromatography the laevo variety is isolated in greater proportion.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal,"
December 16, 1959.

For infants' foods and cotton wool (pharmaceuticals) (5)

Device, 782,177, by Lilia-White (Sales), Ltd., London, E.C.1.

For pharmaceutical, veterinary and sanitary substances; infants' and invalids' foods; medical and surgical plasters, materials prepared for bandaging; material for stopping teeth, dental wax; disinfectants, preparations for killing weeds and destroying vermin (5)

PEPRIL, 783,909, by Pechiney-Progil (S.A.), Paris, France.

For antibiotics, fungicides, disinfectants and pesticides (5)

DELVOCID, 787,484, by Royal Netherlands Distilleries, Delft, Holland.

For disinfectants for sanitary purposes (5)

STARFLUSH, 789,259, by Sundrops, Ltd., Lintwaite, Huddersfield, Yorks.

For all goods (5)

PANALEVE, 790,329, by Wigglesworth, Ltd., Westoughton, Lancs.

For pharmaceutical preparations and substances for human and veterinary use; sanitary substances; and disinfectants (5)

EPTOKAN, 790,469, by Imperial Chemical Industries, Ltd., London, S.W.1.

For pharmaceutical preparations (5)

ANSIVEN, 790,688, by Abbott Laboratories, North Chicago, Illinois, U.S.A.

For pharmaceutical preparations and substances for human internal and veterinary use (5)

ELATON, 790,706, by Imperial Chemical Industries, Ltd., London, S.W.1.

For all goods, but not including adhesive plasters or any goods of the same description (5)

STRIATRAN, 791,298, by Merck & Co., Inc., Rahway, New Jersey, U.S.A.

For pharmaceutical substances for use in the treatment of heart ailments (5)

GILUCOR, 791,426, by Gebrüder Giulini, G.m.b.H., Ludwigshafen-on-Rhine, Germany.

For pharmaceutical preparations and substances for human and veterinary use (5)

GLY-CORAMINE, 792,305, by CIBA, Ltd., Basle, Switzerland.

For medicinal preparations for human use by internal administration; and vaccines (5)

"LANTIVAC," 793,591, by Best & Gee Proprietary, Ltd., Sydney, New South Wales, Australia.

For radiological contrast media (5)

STERIPAQUE, 794,079, by Damancy & Co., Ltd., Ware, Herts.

For pharmaceutical preparations and substances sold in containers, all for sale in the United Kingdom (5)

RESAVULE, 794,261, by Bayer Products, Ltd., Kingston-upon-Thames Surrey.

For pharmaceutical and veterinary preparations (5)

VIAMIT, 794,354, by Chas. Pfizer & Co., Inc., Brooklyn, New York, U.S.A.

For photographic apparatus; and parts and fittings (9)

ABEFOT, 791,385, by Veb Kamera und Kinowerke Dresden, Dresden, Germany.

For apparatus for surgical and medical use in delivering measured quantities of pharmaceutical products for injection purposes, all being for sale in the United Kingdom (10)

RESAVULE, 794,262, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

Assignments

The following mark (5) has been assigned without goodwill of the business in which it was then in use

AKNOIT, 441,049, by Margaret Eleanor Morgan (executrix of William Richard Morgan) Porthcawl, Glam. to Organon Laboratories, Ltd., London, W.C.2.

From the "Trade Marks Journal,"
December 23, 1959.

For detergents (not for use in industrial and manufacturing processes) and shampoos (3)

3 RIBBONS, B790,428, by Twainco, Ltd., Manchester, Lancs.

For all goods (3)

EVERBEL, MIMETIC, 790,628-29, by Barbara

Gould, Ltd., Croydon, Surrey, INGOT, 793,224, by J. C. & J. Field, Ltd., Salford, Lancs.

For oils and greases, all for cleaning, polishing, toilet or laundry use (3)

SKATE, 792,442, by Gourmet & Co., Ltd., London N.W.8.

For tooth-paste (3)

SARAKAN, 793,158, by Francis Hubert Graham Haldwell, Prittlewell, Essex.

For detergents (not for use in industrial or manufacturing processes) (3)

DIVOLUXE, 794,474, PYRON, 494,477, by Diversey (U.K.), Ltd., London, W.1.

For cleaning, polishing and abrasive preparations, and detergents (not for use in industrial or manufacturing processes) (3)

HAR 2, 794,706, by Cimex-Fraser Tuson, Ltd., Orpington, Kent.

For pharmaceutical preparations in gel form (5)

ALUMIGEL, B733,993, by James Woolley, Sons & Co., Ltd., Salford, Lancs.

For chemico-pharmaceutical substances containing nitro compounds for use as nutritive additives to feeding stuffs for animals and poultry (5)

NITROVIT, 782,245, by Nitrovit, Ltd., London, W.1.

For medicated preparations for the skin and medicated toilet preparations; medicated preparations for the scalp and deodorants; all being for human use (5)

TONI, 782,718, by Gillette Industries, Ltd., Isleworth, Middlesex.

For pharmaceutical preparations and substances containing formaldehyde for use in the treatment of intestinal diseases (5)

FORMAZOL, 783,129, by CIBA, Ltd., Basle, Switzerland.

For preparations for protecting plants; and pesticides (5)

BRESTAN, ABRESTAN, 784,753-54, by Farbwerke Hoechst A.G., vormals Meister Lucius & Bruning, Frankfurt-on-Main, Germany.

For analgesics being pharmaceutical preparations for human use (5)

ROSIMON, 785,175, by Ravenberg, G.m.b.H., Zurich, Switzerland.

For preparations for deodorising and freshening the atmosphere, insect repelling preparations, and insecticides (5)

MAX, B786,651, by Mondart, Ltd., London, W.1.

For all goods (5)

ROCSAC, 788,169, by Roche Products, Ltd., Welwyn Garden City, Herts, MEDAC, 792,765, by Genatosen, Ltd., Loughborough, Leics.

MYDRILATE, 794,027, by Ward, Blenkinsop & Co., Ltd., London, W.C.1. YAXA ROLL-ON, 794,361, by Perplex, Ltd., London, W.1.

CODURAL, 795,026, by Riker Laboratories, Ltd., Loughborough, Leics.

For pharmaceutical preparations in the form of lotions (5)

AFTEX, 789,640, by Scholl Mfg. Co., Ltd., London, E.C.1.

For pine disinfectants (5)

STARPINE, B789,698, by Sundrops, Ltd., Lintwaite, Huddersfield, Yorks.

For medical and surgical plasters, materials prepared for bandaging, and surgical dressings; all in strip form (5)

STRIPALEX, 790,151, by Frederick Everett & Co., Ltd., London, S.W.2.

For insecticides, fungicides and preparations for killing weeds and destroying vermin (5)

THICID, 790,358, MIST-O-MATIC, 793,644, by British Schering, Ltd., London, W.8.

For all goods for sale in the United Kingdom (5)

PENOLA, B790,960, SUPERINON, 790,962, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

For veterinary preparations containing sulphur compounds for use in the treatment of coccidiosis in poultry and being goods for export (5)

TRITHIADOL, B791,381, by Winthrop Products, Ltd., Kingston-upon-Thames, Surrey.

For pharmaceutical preparations and substances for veterinary use (5)

MINULES, 792,609, by Boots Pure Drug Co., Ltd., Nottingham.

For pharmaceutical preparations and substances containing iron (5)

TABIRON, 793,285, by W. B. Cartwright, Ltd., Rawdon, Leeds.

For photographic apparatus (9)

DIGNA, 788,815, by Dangel-Maier & Co., Reutlingen (Württemberg), Germany.

For electrically operated appliances for applying and removing facial toilet preparations (9)

SECONDE PEAU, 792,084, by Antoine François Regis Peyron, Paris, France.

For photographic and optical instruments and apparatus; scientific instruments and apparatus and parts and fittings (9)

FOCAFLEX, 793,973, by S.A. Optique et Precision de Levallois, Paris, France.

For optical and photographic apparatus (9)

BELPLASCA, 794,971, by Veb Kamera-und Kinowerke, Dresden, Germany.

For gloves for surgical and medical purposes (10)

MAXYMIT, 787,591, by Maxwell Plastics, Ltd., London, E.17.

For surgical sutures, and bandages (10)

GRINITEL, 794,932, by Veb Thüringisches Kunstfaserwerk Wilhelm Pieck Schwarza, Rudolstadt, Germany.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents),"

December 31, 1959.

Antifungal antibiotic designated NC 1968. W. E. Wooldridge, 828,792.

Anesthetic compositions comprising 2, 2, 2-trifluoroethyl vinyl ether and processes for producing same. Air Reduction C. Inc. 829,010.

Purification and separation of tetracycline. Olin Mathieson Chemical Corporation. 828,911.

Dry, solid penicillin compositions. Imperial Chemical Industries, Ltd. 828,702.

Process for fermentative manufacture of combined agricultural vitamin B₁₂ antibiotic preparations. E. Belik, J. Doskocil and M. Herold. 828,921.

Purified sarkonycin, its derivatives and a method for preparing them. Takeda Pharmaceutical Industries, Ltd. 828,807.

Tropene derivatives. Licencia Talalmanyokart Erteskesito Vallalat. 829,015.

Elegant tetracycline pharmaceutical preparations. American Cyanamid Co. 828,726.

Therapeutic compositions containing novobiocin. C. Pfizer & Co. Inc. 828,729.

Penicillin salts. Imperial Chemical Industries, Ltd. 828,642.

Process for the production of polyvitamin preparation. Laboratoires Français de Chimiotherapie. 828,960.

Surgical trusses. Brooks Appliance Co., Ltd., T. Walker, Ltd., and P. F. White. 828,745.

Preparation of substituted phenanthridine compounds. Boots Pure Drug Co., Ltd. 828,962.

Pharmaceutical compositions containing 2-P-aminobenzenesulphonamido-5-4-butyl-1,3,4-thiadiazole. Soc. des Usines Chimiques Rhone-Poulenc. 828,963.

Oxazolidinediones and process for preparation. U.S. Vitamin Corporation. 829,048.

Pharmaceutical preparations. C. E. Frosst & Co. 829,055.

2-amino-halobenzoazoles, and salts and compositions thereof. McNeil Laboratories, Inc. 829,164.

Medicine for reducing cholesterol level of the blood. Union Carbide Corporation. 829,065.

Laxative agents. A.G. Mundipharma. 829,068.

Diamine compounds and means for producing same. Parke, Davis & Co. 829,176.

Phosphorane compounds and a process for the manufacture thereof. F. Hoffman-La Roche & Co., A.G. 828,999.

2-amino-1-(3,4-methylenedioxyphenyl)-propane isomers, and an azeotropic preparation containing 2-amino-1-(3,4-methylenedioxyphenyl)-propane. Smith, Kline & French Laboratories. 828,880.

Process for the manufacture of a 1:3:5-triazine compound. CIBA, Ltd. 828,836.

Preparation of cyanoformamide. American Cyanamid Co. 829,029.

9-Aminodecahydronaphthalene derivatives. Imperial Chemical Industries, Ltd. 828,933.

Bis-sulphonyl ureas and a process for their production. Cilag, Ltd. 828,987.

Pyrazolone carboxylic acid derivatives. E. Merck, A.G. 829,054.

Thiophosphoric acid esters and a process for their production. Farbenfabriken Bayer, A.G. 828,671.

Herbicidal compositions. Shell Research, Ltd. 828,871.

Fungicidal compositions. Poudreries Reunies de Belgique, S.A. 828,904.

Fungicidal compounds. N.V. Philips Gloeilampenfabriken. 829,142.



80% profit on outlay

DB throat lozenges

Cost to chemists	16s	8d	per doz. tax free
Retailing at	30s	0d	per doz.
Net profit	13s	4d	per doz.



Trafuril cream

Special bonus offer for January only—

110% profit on outlay

1 dozen free tubes with every 6 dozen ordered (i.e. net profit 110% on outlay)

Orders for special bonus offer should be sent **direct** to **CIBA** with details of the wholesalers through whom the order may be executed

Both products are packed
in striking display outers
Showcards available on request

C I B A

'Trafuril' is a registered Trade Mark. Reg. user
CIBA Laboratories Limited, Horsham, Sussex

A new preparation!



Puromyn

FOR THE PROPHYLAXIS AND TREATMENT
OF INFECTIONS OF THE MOUTH AND THROAT

PUROMYN is a palatable formulation employing the established bactericidal action of neomycin sulphate together with a new fungicide — bis-(2-hydroxy-5-chloro-phenyl) sulphide, which has been shown to exhibit a powerful action in controlling overgrowth of oral fungi.

INDICATIONS. Inflammatory conditions of the mouth and throat and oral moniliasis.

FORMULA. Each tablet contains — neomycin sulphate 5 mg. bis-(2-hydroxy-5-chloro-phenyl) sulphide 40 mg.

PACK. Carton of 20 tablets. Trade Price 2s. 10d. + purchase tax.

CALMIC LIMITED, CREWE, CHESHIRE. Telephone Crewe 3251 (7 lines)
LONDON: 2 Mansfield Street, W.1. Telephone, Langham 8038/9

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 6: Although there was no real sign of improvement in the call for CRUDE DRUGS during the past week the market had its odd bright spots.

Peru BALSAM is in good demand, and there were adequate stocks on the spot to meet the orders. Good quality hand-picked Alexandria SENNA PODS were cleared and only the poor grades are now available in quantity. A sharp advance in PEPPER occurred on most trading days during the week. The white Sarawak variety has now more than doubled in price since late October 1959 when a syndicate of Chinese dealers in Singapore was reported to have cornered much of the available supplies. They appear to have improved their position since then while other speculators have also been busy. No improvement in the supply position can be expected before the new Sarawak crop arrives in three or four months time. QUILLAIAs improved slightly with the whole bark now 10s. per cwt. dearer. CINNAMON QUILLS were easier for shipment. MENTHOL was sixpence dearer on the spot for both the Chinese and Brazilian varieties.

The December 1959 price for genuine TOLU BALSAM given in the table last week under the review of 1959 (p. 25), referred to the B.P. grade. Supplies of the genuine had not been available for some months but at the close of the year a parcel arrived which was sold about 22s. per lb.

Among ESSENTIAL OILS dearer per lb. were LEMONGRASS by one shilling; CASSIA by 1s. 3d.; PALMAROSA by 2s.; SANDALWOOD by 5s. and Madagascar CLOVE LEAF by sixpence. American SPEARMINT, which a few weeks ago was available around 42s. per lb., would now cost around 80s. to bring in. No business is being done at that figure which has been built up steadily by a crop yield less than anticipated and by Continental buying to make up for supplies of Chinese oil which have not been offering for several months. Lower per lb. were ANISE, down three-halfpence; PATCHOULI, 2s. and CITRONELLA, three-halfpence.

PHENOBARBITONE was increased by 5s. 6d. per kilo for the smaller lots.

Alcohol Prices Cut

Reductions in the schedule prices of industrial grades of ETHYL ALCOHOL took effect on January 4. Prices of METHYLATED SPIRITS were reduced by amounts ranging from fourpence per gall. for tanker loads to one penny per gall. for buyers of single 5-gall. drums. For plain British spirit the reduction is twopence per proof gall. for tanker loads and one penny per proof gallon for packaged deliveries.

One of the largest manufacturers of inorganic and organic chemicals announced reductions in the prices of a number of their CHLORINE products. UREA is cheaper while PENTAERYTHRITOL and ALUMINIUM CHLORIDE are dearer. Lower prices for PROPYLENE OXIDE and POLYETHYLENE GLYCOLS are now effective.

Pharmaceutical Chemicals

ACETIC ACID.—B.P. glacial, 10-ton lots, £112 per ton naked; technical (80 per cent), £97. Carboys are £8 and demijohns, £10 per ton extra. Single carboy lots, 1s. 8d. per lb. (3s. 8d. per kilo).

ALCOIN.—Fourteen-lb. lots, 31s. 6d. per lb.

p-AMINOSALICYLIC ACID.—SODIUM, 20s. per kilo for 1,000-kilo lots.

ANEURINE HYDROCHLORIDE. — 1-kilo, £11 15s.; 10-kilos, £11 7s. 6d. per kilo.

ASCORBIC ACID.—One-kilo, £3 12s.; 10 kilos, £3 10s. per kilo. SODIUM ASCORBATE is offered at the same prices.

BENTONITE.—B.P. about £70 per ton.

BENZYL BENZOATE.—B.P. in 1-ton lots, 4s. 6d. per lb.

BISMUTH SALTS. — Prices (per lb.) in largest bulk packages:—

	28 lb. to 1 cwt.	1 cwt.	5 cwt.
	s. d.	s. d.	s. d.
CARBONATE ..	22 3	21 9	21 4
SALICYLATE ..	21 9	21 4	20 10
SUBGALLATE ..	21 1	20 8	20 2
SUBNITRATE ..	20 5	20 0	19 6

BRUCINE. — ALKALOID and SULPHATE, 100-oz. lots, 10s. 6d. per oz.

CALCIFEROL.—B.P., 3s. 3d. per gm. for 1-kilo lots.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £33 per ton in free bags, ex works.

CALCIUM CHLORIDE. — B.P. crystals, 1s. 3½d.; granulated, 10½d. per lb. in 1-cwt. lots.

CALCIUM GLUCONATE. — Three-cwt. and upwards, 3s. 6d. per lb.; 1-2 cwt., 3s. 7d.

CALCIUM PANTOTHENATE.—£8 per kilo.

CALCIUM SUCCINATE. — 10s. 6d. to 12s. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton ex works.

CHINIOPHON.—B.P. 1948, 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

CHLOROCRESOL.—Pharmaceutical quality, 7s. 2d. per lb. (1-cwt. lots).

CHLOROXYLENOL.—B.P., 5s. 3d. per lb. for 1-cwt. lots; 5s. 1d. for 10-cwt.

CORTISONE. — One-kilo lots, ACETATE, 12s. 9d. per gm. HYDROCORTISONE ACETATE or ALCOHOL, 13s. 9d. per gm.

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

CYANOCOBALAMIN.—25-gm. lots, £39 per gm., and 1 gm., £40.

FOLIC ACID.—B.P. and U.S.P., 1s. per gm. 1-kilo lots; smaller lots, up to 1s. 6d. per gm.

GLYCEROPHOSPHATES.—Per lb. in 1-cwt. lots:—ACID, B.P.C., 20 per cent., 4s. 7d.; CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble B.P.C., 14s. 3d., and insoluble, 7s. 6d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

HOMATROPINE. — 16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE,

24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROCYANIC ACID. — Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheeles from 3s. 10d. to 4s. 9d.

HYDROQUINONE.—One-cwt. lots, 11s. 6d. per lb. (25s. 4d. per kilo).

MENAPHTHONE. — B.P., £8 per kilo; ACETOMENAPHTHONE, B.P., £8; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), £9 per kilo.

NICOTINAMIDE. — (Per kilo). One-kilo, 61s.; 10 kilos, 59s.; 50 kilos, 57s.

NIKETHAMIDE.—Per kilo, 100s.

PHENOBARBITONE. — Dearer. Fifty-kilo lots, 47s. 6d. per kilo; 5-kilos, 50s. 6d.; 500-gm., 54s. 6d. SODIUM SALT unchanged at 55s. 6d. per kilo for 5-kilo lots.

PYRIDOXINE. — One-kilo, £63 15s. per kilo; 10 kilos, £62.

RIBOFLAVINE. — One kilo, £13 17s. 6d.; 10-kilo, £13 10s. per kilo.

SULPHOCARBOLATES.—SODIUM PHENOSULPHONATE, B.P.C., 1949 (powder), 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949, is 5s. 6d.

SULPHUR.—(Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; SUBLIMED, B.P. £47 10s.; POWDER, 100 mesh, £25 10s.

TANNIC ACID.—The B.P. levis, ex ether, 9s. 9d. per lb.; B.P. powder, 9s. 3d. (1-cwt. lots).

TARTARIC ACID. — 10-cwt. lots, 300s. per cwt.; 5-9 cwt., 302s.; 2-4 cwt., 304s.; 1-cwt., 305s.

TEREBENE. — One-carboy, 4s. 2d. per lb. Winchesters, 15s. 9d. per lb.; 28-lb., 14s. 6d.

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is 9½ per million i.u.

VITAMIN D₂.—In oil, 2 million units per gm. the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—Tocopheryl acetate, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, £31 5s. per kilo; 10 kilos, £30 10s. per kilo. Equivalent prices for unesterified are: 1s. and 10d. per gm. and £37 and £35 10s. per kilo.

Alcohol

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.): where the number of proof gall. taken over any one year ended March 31 is 300,000 or over 3s. 10½d.; 200,000 to 300,000, 3s. 10½d.; 100,000 and less than 200,000, 3s. 11½d.; 50,000 and less than 100,000, 3s. 11½d.; 10,000 and less than 50,000, 4s. 0½d.; 2,500 and less than 10,000, 4s. 0½d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall. drums there is a surcharge of twopence per proof gall.

Absolute Alcohol, 95.5 per cent., 74.5 o.p., from 4s. 2½d. to 4s. 4½d. for same quantities: the special high strength (99.9 per cent., 75.2 o.p.) from 4s. 4½d. to 4s. 6½d. Doubly Rectified Alcohol (S.V.R.) 95.8 per cent., 68 o.p., from 4s. 0½d. to 4s. 2½d.; and P.I. Rectified Alcohol, 96.1 per cent., 68.5 o.p., 4s. 1½d. to 4s. 3½d. R. R. Absolute Alcohol (re-rectified), 99.7 per cent., 75 o.p., 14s. 6d. per bulk gall. net.

Duty is £10 12s. 4d. per proof gall.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, 5s. 8½d.; 100 gall. and under 500 gall., 5s. 11½d.; 40 gall. and under 100 gall., 6s. 3d.; 10 gall. and under 40 gall., 6s. 8½d.; 5 gall. and under 10 gall., 7s. 2d. Strength 64 o.p., ½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 3½d. more than the above rates with 74 o.p. at 6s. 6d. 6s. 9d.; 7s. 0½d., 7s. 6d. and 7s. 11½d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 0d. (tank wagon) for 500 gall. to 8s. 7½d. for 5-10 gall. (in drums) for 64 o.p.

Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 11d.; 100 gall. and under 500 gall. (in drums), 6s. 4d.; 40 gall. and under 100 gall. 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Mineralised methylated spirit: Strength 64 o.p. in one delivery, 100 gall. and under 500 gall., 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

AGAR.—Kobe No. 1, 12s. 4½d. per lb., in bond; shipment, 12s. 1½d., c.i.f.

ACONITE.—Spot: Spanish *napellus*, 2s. 6d. per lb.

ALOES.—Cape primes, spot, 195s. per cwt. quoted; shipment, 175s., c.i.f. Curaçao, 500s., spot.

BALSAMS.—Per lb.:—CANADA: Spot, 22s. COPAIBA: Para from 7s., duty paid. PERU: Spot, 10s. in bond. TOLU (genuine as imported): spot cleared, January-February delivery, 22s., landed; B.P., 14s. 3d.

BELLADONNA.—LEAVES t.a. 0.6 per cent., 2s. 9d. per lb. and root (l.a. 0.63 per cent.), 1s. 6d., spot.

BENZON.—Sumatra block, spot £22 to £30 as to quality.

BUCHU.—Spot rounds, 4s. to 4s. 3d. per lb.; shipment, 4s. 3d., c.i.f.

CALAMUS.—Root, 1s. 2d. per lb., c.i.f.

CALUMBA.—Root, 100s. per cwt., spot.

CAMPOR.—B.P. powder, 3s. 7½d. per lb. in bond.

CAPSICUMS.—East African from 140s. to 175s. per cwt. on the spot.

CARDAMOMS.—Aleppy greens, spot, 14s. 6d. per lb., nominal; prompt shipment, 13s. 9d., c.i.f. Seeds, shipment, 20s., c.i.f.

CASCARA.—Shipment, 275s. per cwt., c.i.f.; spot 300s.

CHERRY BARK.—Thin natural, 1s. 6½d. per lb.; rossed, 1s. 11d.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 6s. 1½d.; 3 O's, 5s. 10½d.; O, 5s. 6d.; quillings, 3s. 5½d.; featherings, 1s. 11½d.

CLOVES.—Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. 6½d., c.i.f.

COCHINEAL.—Peruvian, 4s. 6d. per lb.; Canary Isles grey black, 11s. and black-brilliant, 12s.

COCILLANA.—Bark, 2s. per lb., spot;

COLOCYNTH PULP.—Spot, 2s. 6d. per lb.

DIGITALIS.—*Purpurea* for shipment, 1s. 2½d. to 2s. 6d. per lb., c.i.f., as to quality.

ELEMI.—Spot from 1s. 10½d. per lb. shipment, 1s. 7d., c.i.f.

HENNA.—Indian, spot, 95s. per cwt.; shipment, 65s., c.i.f.

KARAYA.—No. 1 gum on the spot is quoted at 260s. per cwt. nominal, No. 2 at 230s., nominal.

KOLA NUTS.—Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LANOLIN.—ANHYDROUS, B.P. is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LIQUORICE.—Natural root: Persian on the spot, 47s. 6d. and Anatolian, 60s. per cwt. Black juice: Anatolian and Chinese, 190s. per cwt.; Italian stick from 310s. to 476s. per cwt.

LOBELIA HERB.—American spot, 3s. 9d. per lb.; Dutch, 3s. 6d.

MACE.—Whole pale blade, 23s. 6d. per lb. on the spot.

MENTHOL.—Chinese, 60s., duty paid. Afloat, 57s., c.i.f.; shipment not offering. Brazilian, 41s., in bond.

MYRRH.—(Per cwt.). Good sorts, £26, c.i.f.

NUTMEGS.—West Indian 80's 13s. 6d. per lb., spot; sound unassorted, 10s.; defectives, 8s.

NUX VOMICA.—Scarce. Shipment 125s. per cwt., c.i.f.

ORANGE PEEL.—Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 7d.

ORRIS ROOT.—Florentine is 345s. per cwt.

PAPAIN.—Tanganyikan 15s. per lb., c.i.f., for grade one, spot, 17s. 6d. Ceylon, No. 1 white, 15s., c.i.f.; brown, 13s. 6d., c.i.f.

PEPPER.—White Sarawak, 7s. 9d. per lb., spot; January shipment, 7s. 9d., c.i.f. Black Sarawak, 4s. 6d.; shipment, 4s. 6d. Malabar black, new crop, 550s., per cwt. spot; 510s., c.i.f.

PYRETHRUM.—Extract, minimum, 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLAIA.—Spot, whole bark, 110s. per cwt.; cut, 160s. Whole for shipment, 100s., c.i.f.

SEEDS.—(Per cwt.). ANISE.—Bulgarian 122s. 6d.; Spanish, 165s.; Turkish, 127s. 6d., all duty paid. CARAWAY.—Dutch continue firm at 14s. 6d., duty pair; shipment, 120s., c.i.f. CELERY.—Indian on spot offering at 145s., shipment unchanged at 115s., c.i.f. CORIANDER.—Moroccan on spot 45s., duty paid; shipment firm at 32s. 6d., c.i.f. CUMIN.—Iranian, 250s., in bond and 275s., duty paid. DILL.—Indian, 90s., spot sellers; shipment quoted at 80s. to 82s. 6d., c.i.f. FENNEL.—Chinese only available on spot at 100s., duty paid. FENUGREEK.—Moroccan spot sold at 42s. 6d., duty paid; shipment firm at 33s. 3d., c.i.f. MUSTARD.—English, 75s. to 87s. 6d. according to quality.

SENEGA.—Spot 19s. 6d. per lb.; shipment, small lots at 18s. 9d., c. and f. quoted.

SENNA.—*Timnevelly* LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q.; No. 3, 9d. PODS: manufacturing (f.a.q.), 1s. 1d. and hand-picked, 1s. 9d. to 2s. 2d. *Alexandria* pods: Manufacturing, offered from 1s. 6d.; hand-picked lower quality from 3s. 6d. to 4s. 6d. Good h.p. cleared.

STYRAX.—Spot, 33s. per lb., shipment, 31s. 6d., c.i.f.

TRAGACANTH.—No. 1 ribbon is £125 to £130 per cwt. No. 2, £110 to £115.

TURMERIC.—Madras finger on spot is 117s. 6d. per cwt.; new crop, April-May shipment, 97s. 6d., c.i.f.

VALERIAN ROOT.—Spot: Indian (with rootlets), 130s. and Belgian, 175s. per cwt. Dutch whole (max. 2½ per cent. sand) for prompt shipment, 159s., c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 23s. 3d.; 1 cwt., 23s. 6d.; 57-lb., 23s. 9d.; smaller quantities, 24s.

Essential and Expressed Oils

ANISE.—Chinese, 7s. 9d. per lb., spot; shipment, 7s. 6d., c.i.f.

CARAWAY.—Imported oil, 27s. 6d. per lb.

CARDAMOM.—From 330s. per lb. for English-distilled and 260s. for imported.

CASSIA.—Spot, 15s. 6d. per lb.; shipment, 15s., c.i.f.

CITRONELLA.—Ceylon, spot, 6s. 1½d., shipment, 5s. 8d. per lb., c.i.f. Formosan, spot, 5s. 10d. in bond; shipment, 5s. 9d., c.i.f.

CLOVE.—Madagascar leaf, spot, 9s. 9d. per lb., duty paid; shipment, 8s. 3d., c.i.f. Rectified 87-88 per cent., 8s. 6d. Distilled bud oil, English B.P., 30s. to 31s.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER.—B.P. oil is quoted from 62s. 6d. per lb.

LAVANDIN.—Spot, 6s. to 9s. per lb. for original drums.

LAVENDER.—From 24s. to 37s. 6d. per lb. as to quality.

LAVENDER SPIKE.—Spanish, 15s. to 17s. per lb. for original drums.

LEMON.—B.P. grades from 16s. to 26s. per lb. on the spot. Californian for shipment, 25s. to 28s. 6d., c.i.f. Terpeneless, 500s. per lb.

LEMONGRASS.—Spot, 13s. per lb., and shipment, 13s. 6d., c.i.f.

PALMAROSA.—Spot, 27s. 6d. per lb., 24s. 6d., c.i.f.

PATCHOULI.—Penang is 34s., duty paid and 28s. 6d., c.i.f. per lb.

PENNYROYAL.—Spot, 15s. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese spot, 34s. per lb. Brazilian, 10s. 9d. to 11s. 3d. spot and shipment, 10s. 9d., c.i.f. *Piperita*: Italian "Mitcham-type", from 42s. 6d. to 48s. 6d.; American, 26s. to 30s., as to origin.

PETITGRAIN.—Paraguay, 18s. 6d. per lb., spot; shipment, 17s. 9d., c.i.f.

RUE.—Spanish is 25s. per lb. spot.

SANDALWOOD.—Mysore, spot 100s. to 105s. per lb. East Indian, 100s. to 105s. per lb. Australian, 60s.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

SPEARMINT.—American oil replacement value 80s. per lb. Chinese, none available.

TANGERINE.—Hand-pressed is 55s. per lb. and machine-pressed, 42s. 6d.; others, 26s. to 28s. on the spot.

YLANG YLANG.—Spot, from 32s. 6d. to 46s. per lb. as to grade.

UNITED STATES REPORT

NEW YORK, JANUARY 5: Among CRUDE DRUGS *PODOPHYLLUM (peltatum)* edged up seven cents to 45 cents a lb. Lower per lb. were BUCHU at 65 cents, down ten cents; TOLU BALSAM at \$3, down 25 cents; and GUM ACACIA, with amber sorts 24 cents, down two cents. Among ESSENTIAL OILS Floridian ORANGE declined by 15 cents to 50 cents a lb. AMIDOPYRIN sagged 95 cents to \$3.80 per lb. Total sales of chemicals and allied products in the United States were a record at \$25,000 millions in 1959, and the prospect for 1960 was \$27,000 millions according to the trade Press. World-wide consumption of SULPHUR rose in 1959 to 16,100,000 long tons against 15,247,000 in the previous year, according to a large U.S. producer. In the U.S. consumption rose to 5,835,000 long tons from 5,255,000 in 1958 but production declined slightly to 6,110,000 long tons (6,140,000).

WORLD TRADE

Nepal to Increase Imports. — The Nepalese Government is expected to permit increased imports of a number of commodities including medicines, chemicals, photographic goods, dyes, camphor, safety razor blades, spices and perfumes and essences.

Pure Sulphur from Sulphur Dioxide. — Texas Gulf Sulphur Co. and the International Nickel Co. of Canada, Ltd., announce "encouraging results" in the initial eight-months operation of a pilot plant for obtaining pure sulphur from sulphur dioxide in the high quality roaster off-gas at Inco's large iron ore recovery operation in the Sudbury district of Ontario.

Norwegian Customs Duty Changes. — The Norwegian customs authorities have altered rates of duty on a number of items, with effect from December 15, 1959. Among the items affected by the changes is medicinal wadding, the duty on which has been raised from 10 to 14 per cent., and that on other types of wadding from 8 to 12 per cent.

Trade Agreements. — Under a three-year trade agreement with Jugo Slavia and an agreement on trade exchanges for 1960 signed in Sofia, recently, Bulgaria is to supply Jugo Slavia with chemicals and medicines as well as import chemicals from that country. — Under the terms of a one-year trade agreement for 1960 with the Benelux countries, signed in Sofia recently, Bulgaria is to receive chemical fertilisers and drugs.

U.S. Drug Industry Prospects. — United States drug makers now expect the industry's 1959 sales to show a 7 per cent. increase over 1958, with the gain in earnings slightly less. Estimates of sales for individual companies range from 5 per cent. to 15 per cent. above last year's figures. Earnings predictions for 1959 are from "about the same as last year," the estimate Eli Lilly & Co. officials gave, to "something approaching 30 per cent.," the outlook for Smith, Kline and French.

Tightening Imports into Guatemala. — The Guatemalan Government has prohibited future imports of ninety groups of "luxury items" (mainly processed foods) and raised customs duties 20 per cent. on 600 other groups including cosmetics. The measure was declared necessary because of an alarming decrease in foreign exchange reserves which, the Government said, had been caused by low coffee prices and large imports of luxuries. In-and large imports of luxuries.

EXPANSION PLANS

A NEW Italian company is to be formed by Armour Pharmaceutical Co., Ltd., and Carlo Erba. Called Armour-Erba Farmaceutici, it will be based on Milan.

PLANS for a new pharmaceutical manufacturing plant in Karachi were announced by Mr. S. C. Moody (vice-president for international relations of the American Cyanide Co.), recently. The new works will produce antibiotics and products developed by Cyanamid's Lederle Laboratories division.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, January 11

COLCHESTER BRANCH, PHARMACEUTICAL SOCIETY, George hotel, High Street, at 8 p.m. Ladies' night.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Unicorn hotel, Gidea Park, at 7.45 p.m. Dr. G. N. Rolinson (Beecham Research Laboratories, Ltd.) on "Recent Discoveries in the Penicillin Field."

SOUTHPORT BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, at 7.45 p.m. Talk.

STOCKPORT BRANCH, PHARMACEUTICAL SOCIETY, Warren Bulkeley hotel, Warren Street, at 8 p.m. Ladies' supper evening.

Tuesday, January 12

BIRKENHEAD AND WIRRAL BRANCH, PHARMACEUTICAL SOCIETY, Central hotel, at 8 p.m. Mr. A. C. Calvert on "Medical Aspects of Hypnosis."

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, Falkstaff hotel, Canterbury, at 8 p.m. Dr. F. G. Clayton introducing film "Diuretic Therapy with Chlorothiazide."

SOUTH EAST LONDON ASSOCIATION and BRANCH, New Cross Inn, at 8 p.m. Talk.

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, King's assembly rooms, King Street, at 7.30 p.m. Mr. J. W. Thornborrow on "Roman Wall."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Royal Bell hotel, Bromley, at 8 p.m. Films.

Wednesday, January 13

AYRSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Ossington hotel, Kilmarnock, at 7.30 p.m. Open forum.

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Botanical gardens, Edgbaston, at 8 p.m. Dance.

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, and COLLEGE of GENERAL PRACTITIONERS, 36 York Place, at 8 p.m. Joint meeting. Discussion "For and against the immediate introduction of the Metric System in prescribing and dispensing."

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 142A St. Vincent Street, Professor M. G. P. Stoker (Glasgow University) on "The Nature of Viruses."

MANCHESTER BRANCH, PHARMACEUTICAL SOCIETY, Embassy Rooms, Washway Road, Sale, at 6.15 p.m. Dinner, dance, whist-drive.

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY, SOCIETY FOR APPLIED BACTERIOLOGY, Royal Society of Medicine, 1 Wimpole Street, London, W.1, at 2.15 p.m. Joint meeting on "Methods for the Evaluation of the Antibacterial Activity of Surface Active Compounds."

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, Mackworth hotel, at 7.45 p.m. Mr. G. Davies on "Wines."

WESTERN PHARMACISTS' ASSOCIATION BRANCH, NATIONAL PHARMACEUTICAL UNION, 21 Portman Square, London, W.1, at 7.30 p.m. Mr. J. H. Charlton (N.P.U. central checking bureau) on "Pricing Problems and Procedure."

WEST HAM ASSOCIATION, EAST METROPOLITAN BRANCH, "Swan," The Broadway, Stratford, London, E.15, at 8 p.m. Films.

Thursday, January 14

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Luton and Dunstable hospital, Luton, at 7.45 p.m. Members' symposium.

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Old Council house, Corn Street, at 7.15 p.m. Talk.

CHEMICAL SOCIETY, Royal Institution, Albemarle Street, London, W.1, at 7.30 p.m. Professor C. Kemball on "Progress in the Study of Heterogeneous Catalysis."

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun hotel, Hanworth Road, at 8 p.m. Films.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, School of Medicine, at 8 p.m. Talk.

LIVERPOOL PHARMACEUTICAL ASSOCIATION and BRANCH, Adelphi hotel, at 8 p.m. Talk.

SCARBOROUGH BRANCH, PHARMACEUTICAL SOCIETY, Palm Court hotel, St. Nicholas Cliff. Talk.

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, at 8 p.m. Talk.

THAMES VALLEY PHARMACISTS' ASSOCIATION and BRANCH, Kingston hotel, Kingston-on-Thames, at 7.45 p.m. Miss D. Murgatroyd (Crawley pricing bureau) on "Pricing."

TUNBRIDGE WELLS BRANCH PHARMACEUTICAL SOCIETY, Kent and Sussex hospital at 7.45 p.m. Mr. B. Pearce (Kodak, Ltd.) on "Colour Photography."

Friday, January 15

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.30 p.m. Dr. A. H. Beckett on "Recent Developments in Analgesics."

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Cranbourne rooms, Hatfield, at 8 p.m. Dance.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Rock Gardens Pavilion, at 8 p.m. Dance.

TELEVISION

Programme details are given to enable chemists to put in linking-up displays if they wish. Figures in the columns represent number of appearances of the product during the week.

January 17-23

	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
Alka-Seltzer ..	2	2	2	2	2	2	2	2	—
Anadin ..	4	4	4	4	4	4	4	3	4
Anestan ..	1	1	1	1	1	1	1	—	—
Angier's junior aspirin ..	3	5	4	—	—	—	—	—	—
Antussin ..	4	3	3	2	2	2	2	2	—
Askit ..	—	—	12	—	—	—	—	—	7
Aspro ..	4	5	5	5	4	5	6	—	—
Beecham's pills ..	1	1	1	—	—	—	—	—	—
Beecham's powders ..	3	12	12	3	12	3	4	4	4
Bronchipax ..	—	3	4	2	2	—	7	—	—
Camay ..	2	1	3	1	2	2	3	3	5
Cephos ..	—	—	3	—	—	—	—	—	—
Coldrex ..	2	2	2	2	—	2	2	2	—
Cuticura ..	3	—	2	—	—	—	—	—	—
Daxids ..	—	8	3	—	5	—	—	—	—
Dekrasil ..	—	—	—	—	—	—	2	—	—
Dixor products ..	1	—	—	—	1	—	—	—	—
Dristan ..	—	2	—	—	—	—	—	—	—
Eno's "Fruit Salt" ..	2	2	—	—	—	—	—	—	—
Farley's rusks ..	3	—	—	—	—	—	—	—	—
Fynnon salt ..	2	2	2	2	2	2	2	—	2
Germolene ..	2	3	1	—	—	—	1	—	4
Gon ..	4	1	2	2	2	2	2	2	2
Guavin ..	—	—	—	—	—	2	—	—	—
Hemotabs ..	—	—	—	—	—	3	—	—	—
Kleencx ..	2	1	1	3	2	1	2	2	1
Kruschen ..	—	1	1	—	—	—	—	—	—
Lantigen ..	1	1	1	1	2	2	2	2	—
Lectric shave ..	1	1	1	—	—	—	—	—	—
Lemskin ..	—	—	1	—	—	—	—	—	—
Loxene shampoo ..	3	3	3	3	3	3	3	3	3
Lucozade ..	4	3	3	—	2	2	2	2	2
Mac throat sweets ..	3	1	—	—	—	—	—	—	—
Max Factor ..	2	2	2	2	2	2	2	2	2
Medic-aire ..	1	—	—	—	—	—	1	—	—
Mentholatum "deep heat" rub ..	2	—	1	—	—	—	—	3	—
Milk of Magnesia ..	—	2	2	—	—	—	—	—	2
Milk of Magnesia tablets ..	2	—	4	3	3	3	3	—	—
Milpar ..	—	3	—	—	—	—	—	—	—
Nemakol ..	1	1	2	1	1	1	—	1	1
Nigroids ..	—	2	—	—	—	—	—	—	—
Penetrol ..	1	1	1	—	—	—	1	—	—
Phosferine ..	1	1	1	2	2	2	1	1	1
Quinasp ..	3	—	—	—	—	—	—	—	—
Rennies ..	2	2	2	2	2	2	2	3	—
Ribena ..	1	2	2	2	2	2	2	2	2
Savlon lozenges ..	3	3	3	3	—	—	4	—	—
Savril ..	—	—	—	—	—	—	3	—	—
Scott's emulsion ..	—	1	—	—	—	—	—	—	—
Setlers ..	3	2	2	1	2	2	1	—	—
Silvikrin shampoo ..	10	3	3	3	2	2	3	—	—
Sun orange Quosh ..	—	—	—	—	2	—	—	—	—
Suregrip gloves ..	3	3	3	3	3	3	3	—	—
Valderma balm ..	4	—	3	3	—	—	3	—	—
Valderma soap ..	—	3	—	—	—	—	—	—	—
Veno's cough mixture ..	3	4	3	3	3	3	3	3	3
Virol ..	—	2	—	—	—	—	—	—	—
Winspray ..	—	—	—	—	—	2	—	—	—
Yeast-Vite ..	—	1	2	—	1	1	1	2	2

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.= Inclusive Retail Price; * =Tax 25 per cent.; ‡=Tax 50 per cent.

DALMAS, LTD.

Arthene*	1 oz.	20 0	2 11 A
	2 oz.	23 0	3 4 A

LACTAGOL, LTD. (from January 1)

Lactagol tablets*	48	19 7	2 7 A
-------------------	----	------	-------

MERCK SHARP & DOHME, LTD. (from January 9)

Cremotresamide	16 fl. oz.	Each 19 0	28 6 R
----------------	------------	-----------	--------

PAINES & BYRNE, LTD. (from January 1)

Nebadrene solution	10 mls	Each 2 6	3 9 R
	30 mls	3 4	5 0 R
nebuliser outfit (nebuliser and 10 mls of solution)	10 8	16 0 A	

PICOT (SALES), LTD. (from January 1)

Perfumes:—	Fiesta, Le Train Bleu, Le Muguet	Doz.	
Fleur, Le	Gardenia	30 0	5 0 A
Blanc, Pagan	miniature	1 1/2 oz.	93 0
		1 1/2 oz.	180 0
		1 oz.	330 0
		2 oz.	600 0

ROCHE PRODUCTS, LTD. (from January 1)

Becosym tablets	100	40 0	5 0 R
	500	160 0	20 0 R
forte tablets	25	60 0	7 6 R
	100	160 0	20 0 R
	500	720 0	90 0 R
ampoules	6	84 0	10 6 R
	50	480 0	60 0 R
syrup	100 mls	54 0	6 9 R
	500 mls	200 0	25 0 R
Benadon tablets	20 mgm.	100	160 0
	500	708 0	88 6 R
	50 mgm.	100	320 0
	500	1,470 0	183 9 R

ampoules	2 mls (50 mgm.)	50	420 0
		52	6 R

ROSE, KIA-ORA SALES CO., LTD.

Suncrush, Kia Ora	1-2 cases	29 0 R
	3-5 cases	28 6 R
	6-11 cases	28 3 R
	12-29 cases	27 9 R
	30 cases and over	27 6 R

THORNTON & ROSS, LTD.

Zoflora aerosols	Doz.	31 6	3 9 R
Jertox aerosols		33 0	3 9 R

NEW PRODUCTS AND PACKS

ABBOTT LABORATORIES, LTD.

Tecadrine cough syrup	Each	3 2	4 9
	4 fl. oz.		
	40 fl. oz.	25 0	37 6

BAYER PRODUCTS, LTD.

Phisohex*	150 mls	7 4	12 10
	4 litres	100 0	175 0

J. L. BRAGG, LTD.

Braggatabs*	24	19 0	2 6
	50	26 6	3 6

W. B. CARTWRIGHT, LTD.

Cetal tablets	20	15 3	1 11
	40	26 0	3 3

CUNSON, GERRARD & CO., LTD.

Sylvia sanitary towels	6	10 6	1 2
------------------------	---	------	-----

JOHN DORELL (EASTCHEAP DISTRIBUTORS), LTD.

Peacock blackcurrant health drink			2 11
-----------------------------------	--	--	------

F.B.A. PHARMACEUTICALS, LTD.

Elestol tablets	30	Each 9 4	14 0
	150	42 0	63 0

DOROTHY GRAY, LTD.

"Wild Coral" Satura lipstick		9 9
refill		6 3

O. R. GROVES, LTD.

New sparkling Citroze		2 3
-----------------------	--	-----

IMPERIAL CHEMICAL INDUSTRIES, LTD., PHARMACEUTICALS DIVISION

Fluothane	250 mls	205 0
-----------	---------	-------

KNOX LABORATORIES, LTD.

Bocasan sachets*	8	Doz. 36 0	I.R.P. 4 9
	20	73 6	9 9

LINCOLN CHEMICALS, LTD.

Linc-O-Lin beer shampoo*			
"magnum" pack			4 6

MERRELL-NATIONAL (LABORATORIES), LTD.

Tenuate tablets*	30	Each 6 0	I.R.P. 10 6
	100	17 8	30 9

NEWTON CHAMBERS & CO., LTD.

Izal "soft" lanolised toilet tissue			1 3
-------------------------------------	--	--	-----

PARKE, DAVIS & CO., LTD.

Medicel suspension	16 fl. oz.		85 0
--------------------	------------	--	------

PFIZER, LTD.

Valtorin tablets*	6	1 4	2 4
	12	2 6	4 4 1/2
dispensing pack 100	100	15 0	26 3
dispensing pack 500	500	40 0	70 0

ANDRE PHILIPPE, LTD.

Eau de Cologne	4 oz.	Doz. 9 0	1 6
Lavender water	4 oz.	9 0	1 6

PORTLAND PLASTICS, LTD.

Portex vinyl pessary	Each	4 6
polythene pessary		3 6

RAPIDOL, LTD.

Inecto "hair magic" ‡ black	1 8	3 10
-----------------------------	-----	------

REXALL DRUG CO., LTD.

"Super" Plenamins "family pack"		42 0
---------------------------------	--	------

A. H. ROBINS CO., LTD.

Robaxin* ampoules			
10 mls	5	32	6
	25	155	0

RONSON PRODUCTS, LTD.

Ronson C.F.L. 1 shaver*		
(gift pack)	177	6
C.F.L. 2 (trip kit)	210	0

PRINT AND PUBLICITY

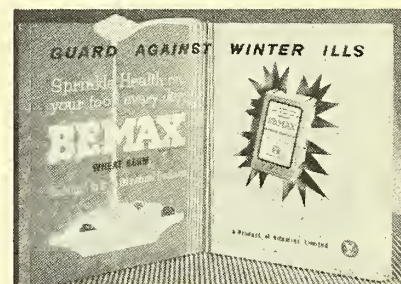
PRESS ADVERTISING

BOWATER-SCOTT CORPORATION, Bowater House, Knightsbridge, London, S.W.1: Handy Andies. In *Daily Mirror* and *Daily Express*.

EAREX, LTD., 48 Higher Bridge Street, Bolton, Lancs: Earex (large size). Provincial dailies and weeklies for three months.

IMPERIAL CHEMICAL INDUSTRIES, LTD., pharmaceuticals division, Wilmslow, Ches: Savlon antiseptic lozenges. In *Daily Express*, *Daily Mirror*, *Daily Mail*, *Daily Telegraph*, *Radio Times*, and main provincial Press.

MEGGESON & Co., LTD., Llewellyn Street, London, S.E.16: Meggezones. Each Monday from February 1 to April 11, in *Daily Express*, *Daily Telegraph*, *Daily Mail*, *News Chronicle*.



FOLDING SHOWSTAND: A seasonable display-piece currently available from Vitamins, Ltd., Upper Mall, London, W.6.

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for December was 209.4

Cost		Item	16 oz.	4 oz.	1 oz.	1 dr.
d.	per		s. d.	s. d.	s. d.	s. d.
102	500 gm.	Acacia pulv. opt....	—	3 3	1 0	0 1 1/2
288	500 gm.	Anthem. exot.	—	—	3 0	0 5
54	500 mls	Aqua hamamelidis ...	—	1 9	0 6 1/2	0 1
123	25 gm.	Argenti nitras cryst. ...	—	—	—	2 6
43	25 gm.	Caffeina, B.P.	—	—	—	0 10 1/2
87	250 gm.	Capsici fructus pulvis ...	—	5 7	1 8	0 3
147	25 gm.	Chrysarobinum, B.P.C. '49	—	—	—	3 0
172	2 kilos	Emuls. ol. morrhuae, B.P. '53	4 4	1 5	0 5	—
81	500 gm.	Emuls. ol. morrh. c. hypophos., B.P.C. '49	—	9 2	2 7	0 9 1/2
104	500 mls	Ext. casc. sagr. liq.	—	3 4	1 0	0 1 1/2
82	100 mls	Ext. colchici liq. P.I.(9)	—	—	3 6	6
69	25 gm.	Ext. hamamelidis sicc.	—	—	—	1 5
108	500 mls	Inf. buchu conc., B.P.C.	—	3 6	1 1	0 2
84	500 mls	Inf. calumbae conc., B.P. '48	—	2 8	0 10	0 1 1/2
99	25 gm.	Ipecac. pulv.	—	—	—	2 0
47	100 mls	Liq. cantharidin., B.P.C. '49	—	—	—	—
		S.I.(5)	—	—	2 0	0 3 1/2
93	500 mls	Liq. strych. hydrochlor. S.I.(5)	—	3 0	0 11	0 1 1/2
78	500 mls	Ol. eucalypti	—	2 6	0 9	0 1 1/2
54	2 pt.	Ol. terebinth. coml.	2 9	0 9 1/2	0 3	—
92	4 lb.	Paradichlorbenzenum ...	—	0 10	0 3	—
63	25 gm.	Theobromin., B.P.C.	—	—	—	1 3
105	500 mls	Tinct. colchici P.I.(9)	—	3 4	1 0	0 1 1/2
114	500 mls	Tinct. lavandulae co., B.P.C. '49	—	3 8	1 1	0 2
72	500 mls	Tinct. nuc. vomicae P.I.(9)	—	2 4	0 8 1/2	0 1
153	100 gm.	Tragacantha	—	—	6 6	0 10 1/2
114	500 gm.	Ung. methyl. salicyl. co. dil. ...	—	3 8	1 1	0 2

Cost		Tablets, retail (in containers)	25	100
d.	per		s. d.	s. d.
306	1000	Aloin. co., B.P.C.	1 9	5 4
75	1000	Glyceryl. trinitrat. gr. 1/130 ...	0 10 1/2	2 0
432	1000	Phenobarb. et theobrom. B.P.C. ...	2 2	7 2
		S.I. B only		

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.

NEW!
*real***BLACK****BLACK***semi-permanent hair colouring!*

At last, you can sell the semi-permanent black hair colouring women so much desire. Inecto lead again in producing it—real black Hair Magic—an all-over even black without streaks—a perfect lustrous black. Hair up to 50% grey is transformed in a few minutes to a beautiful black, gleaming with beauty. Like all the Hair Magic range, Black is easy to apply—cleanses and conditions the hair at the same time to glorious silkiness. It is the tested and proved answer to the popular demand for a really faultless black. **No skin test.**

Be sure you have ample stocks.



From your wholesaler
1/8 per bottle + P.T.
Retail **3/10**
YOUR PROFIT **1/4**

**INECTO
HAIR MAGIC****BLACK***The most experienced and largest manufacturers of hair colouring in the world.*

INECTO HOUSE 27 DOVER STREET LONDON W1. Telephone: HYDE PARK 7541

Edible Bone Phosphate

Full particulars, samples and prices from
Calfo Ltd.

Imperial House, Kingsway, London, W.C.2
Telephone: Temple Bar 3629



The tree of life,
the symbol of the
highest quality in
fine chemicals today,

CARNEGIES

of WELWYN LTD.
ESTABLISHED 1911

Manufacturers and Suppliers of

ADRENALINE
ADRENOCROME
MONOSEMICARBAZONE
ALPHANAPHTHYL ACETIC ACID
AMINOPHYLLINE
BISMUTH SALTS
BRUCINE AND SALTS
CAFFEINE AND SALTS
CHRYSAROBIN
EPHEDRINE AND SALTS
HYDANTOIN DERIVATIVES
IODIDES
ISOPRENALINE SALTS
METHOIN
NORADRENALINE AND SALTS
P.A.S. SODIUM
PIPERAZINE AND SALTS
RESERPINE
SANTONIN
STRYCHNINE AND SALTS
THEOBROMINE AND SALTS
THIOMERSALATE
QUININE AND SALTS
CINCHONA FEBRIFUGE
TOTAQUINA

CARNEGIES OF WELWYN LTD.
Welwyn Garden City, Hertfordshire, England

Phone: WELWYN GARDEN 5001 (10 lines)
Cables: CARNEGIES, WELWYNGARDENCITY
Telex: LONDON 28676

*We women want
carefree protection!*



COSETTE

No Belt

gives this carefree protection

No wishful thinking this!
The demand for Cosette
Sanitary Protection has been
phenomenal — sales have
rocketed 600% in the last
twelve months! Now comes a
new product, new packs,
and new non-stop national
advertising to give sales
yet another merry whirl.
Cosette Briefs — they just
won't stop selling. So don't,
don't stop ordering.

★ Have you ordered enough?



The original No-Belt briefs, quick
drying nylon, waterproof gusset
with pockets. 3 sizes 9/11 a pair.



As original briefs but in rayon
3 sizes 6/11 a pair.



NEW!

De-Luxe permanently perfumed
briefs in nylon, reinforced back
and front. 3 sizes 12/3 a pair



The new Cosette
packs—so attractive
to display, so con-
venient to handle.

Available from your usual wholesaler

or direct from us

Write for details to **COSETTE LTD**
21 Beauchamp Place, London, S.W.3

On every Monday
from February 1 to April 11
advertisements for

MEGGEZONES

will appear in the

DAILY
EXPRESS

Readership 11,994,000

DAILY
TELEGRAPH

Readership 2,737,000

DAILY
MAIL

Readership 5,910,000

NEWS
CHRONICLE

Readership 4,261,000

Meggezones are the winter standby of countless men and women throughout Great Britain. They will be sold to millions more by powerful advertisements in these four National Daily newspapers. Be sure that you reap the benefit of this advertising: stock and display Meggezones.

BRITAIN'S TOP-SELLING THROAT PASTILLES

—now in even greater demand

The name that guarantees accuracy

- CLINICAL THERMOMETERS
- HOUSEHOLD THERMOMETERS
- INDUSTRIAL THERMOMETERS

G. H. ZEAL LTD

LOMBARD ROAD • MORDEN ROAD • LONDON • S.W.19

Telephone: LIBERTY 2283-4-5-6 and 4201
Cables: "Zealdom" London



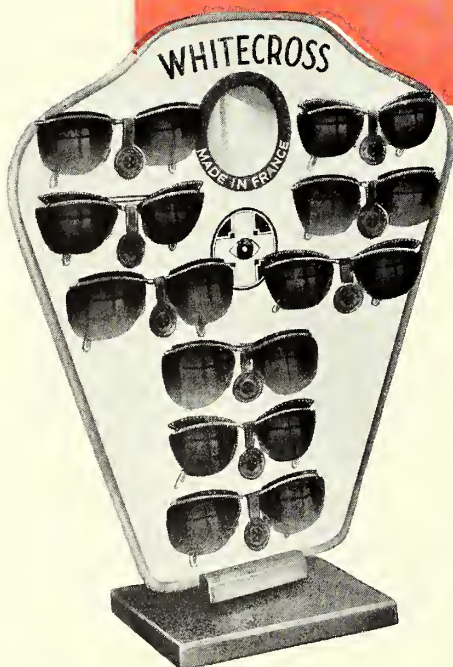
ZEAL BRITISH MADE

CLINICALS

FOR GLAMOUR WITHOUT GLARE...

choose "Whitecross" for 1960

A COMPLETE AND EXCITING RANGE OF CONTINENTAL SUNGLASSES
INCLUDING LIGHTWEIGHTS RETAILING FROM 2/6 EACH



Ask your usual wholesaler for our illustrated catalogue

THE WHITECROSS "CAROUSEL"

An attractive revolving display stand supplied FREE with 24 sunglasses as follows:—

Price to Public

- 6 Pieces COLETTE, smoke, beautifully decorated top 7/6 each
- 6 Pieces COLETTE, turquoise, beautifully decorated top 7/6 each
- 6 Pieces CARAVELLE, large, graduated, shell top 7/6 each
- 6 Pieces CARAVELLE, small, graduated, shell top 7/6 each

These glasses are also supplied separately

SEE US AT HARROGATE
GRAND HOTEL • ROOM 220



REG TRADE MARK

Whitecross Optical Company

(Proprietors, Fredk. Lehmann Co Ltd.)

Frederick Works, Rochester Place, London N.W.1

Telephone: GULLiver 6731

TAKE A GOOD LOOK
AT THE **NEW**
RONSON
C-F-L



Closest, Fastest, Lightest touch
— and what it means to you ...



**This is the electric shaver
your customers will want**

THE RONSON C.F.L. promises to sweep the market. It means big business for you—so make sure you have plenty in stock.

- * **Sumptuous NEW styling**
- * **Striking NEW presentation case**
- * **NEW voltage control**
- * **NEW on-off switch**
- * **NEW clip-on shaving foil**

Closest, **F**astest, **L**ightest touch



To help you sell...

brilliant NEW display material

... free on request from your Ronson representative or the address below.

FOUR MORE RONSON SALES AIDS

Ronson Consignment Scheme

For full details of this scheme, which gives you extended credit and tax benefits on your Ronson order, read the C.F.L. Dealer Leaflet.

Free Trial Scheme

Many dealers report 9 out of 10 Ronson shavers sent out on trial are sold within the 14-day free trial period. Deposit for the C.F.L. is only 10/-. Ask your Ronson representative for details.

Ronson PROFIT-PLUS Plan for local advertising

Links your shop to the Ronson national advertising campaign. The Dealer Leaflet will give you the full details.

Deferred Terms

Initial payment under this scheme has also been reduced to 10/-. This is another sure sales winner. Your Ronson representative will be pleased to tell you all about it.

Cash in on Faster turnover, Larger profits with the

RONSON C.F.L.

RONSON PRODUCTS LTD, LEATHERHEAD, SURREY TEL: LEATHERHEAD 4444



We can supply bulk vitamins in all categories. Capacity also for large scale ampoule production. Look to Vitamins Ltd. for your vitamins. Enquiries will receive immediate attention.

Bulk vitamins and ampoule production



Get your vitamins from
VITAMINS LTD.

Bulk Sales Dept.,
Vitamins Ltd., Upper Mall,
London, W.6.
Telephone: Riverside 5001
Telegrams: Vitabemax,
Hammer, London.



A Quality product...
Consistent National
Advertising...

High profit margin...

Dr. WERNET'S POWDER

The best-seller in Denture Fixatives

STAFFORD - MILLER LTD

HATFIELD

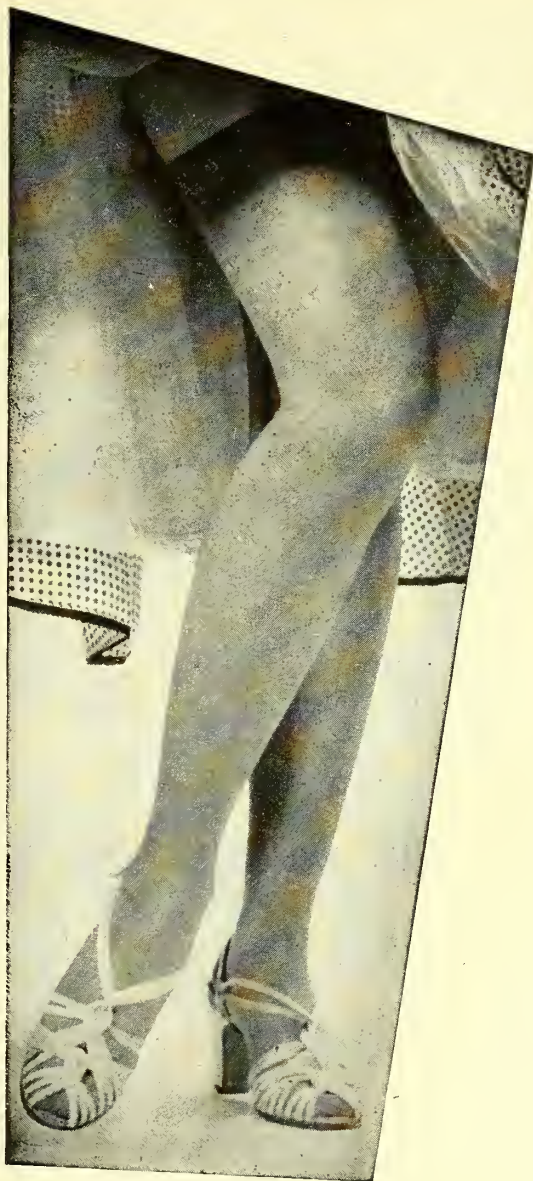
HERTS

Millions of men and
women know that it's
KAY'S
for coughs

* feature Kay's display material
prominently on your counter

KAY'S LINSEED COMPOUND

KAY BROTHERS LTD., REDDISH, STOCKPORT



Jayskin

two-way stretch

**SURGICAL
ELASTIC
HOSIERY**

To N.H.S. Specification

ALSO IN NYLON

Attractively Boxed

SELF MEASUREMENT FORMS

"MADE TO MEASURE"
hosiery, usually despatched
same day as receipt of order.

Invisible under the stocking

WOOD, BASTOW (ELASTICS) LTD

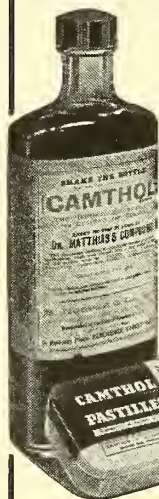
Dove Green, Selston, Notts.

Telephone: Pinxton 474/5/6

and at Victoria Road, Pinxton, Derbyshire.

Telephone: Pinxton 508

For more than 100 years

CAMTHOLhas been recommended
for COUGHS & COLDS**CAMTHOL LINCTUS**

The Cough mixture for Adults

CAMTHOL PASTILLES

In tins suitable for pocket and handbag

CAMTHOL VAPOUR RUB

Incorporating the finest Essential Oils

**BONUS**—Thirteen to the dozen on all orders

	Retail	per doz.
CAMTHOL LINCTUS	3/- per bott. inc. P.T.	Cost 27/6
CAMTHOL PASTILLES	1/9 per tin inc. P.T.	Cost 14/11½
CAMTHOL VAPOUR RUB	1/9 per jar inc. P.T.	Cost 14/11½

B. HOOPER & CO. LTD.6 RAILWAY PLACE, FENCHURCH STREET,
LONDON, E.C.3

Do not
disappoint
your customers
—stock and display

Askit

Powders and tablets for the safe and
speedy relief of headaches, colds, chills,
rheumatic and nerve pains.

EX ALL LEADING WHOLESALE HOUSES**MODERN EQUIPMENT**

"WEBSTER'S"
STAINLESS STEELWARE

ISAAC WEBSTER & SONS LTD.
ABBAY WORKSTELEPHONE
51580
LEEDS**KIRKSTALL
LEEDS. 5.**TELEGRAMS
"ISAAC WEBSTER"
KIRKSTALL**"Eagle" Brand Chemicals**

PHOTOGRAPHIC CHEMICALS

SODIUM METABISULPHITE

SODIUM HYPOSULPHITE
(Crystals and Anhydrous)SODIUM SULPHITE
(Crystals and Anhydrous)

EPSOM SALTS B.P.

GLAUBER SALTS B.P.

PRECIPITATED SULPHUR B.P.

ACCUMULATOR ACID

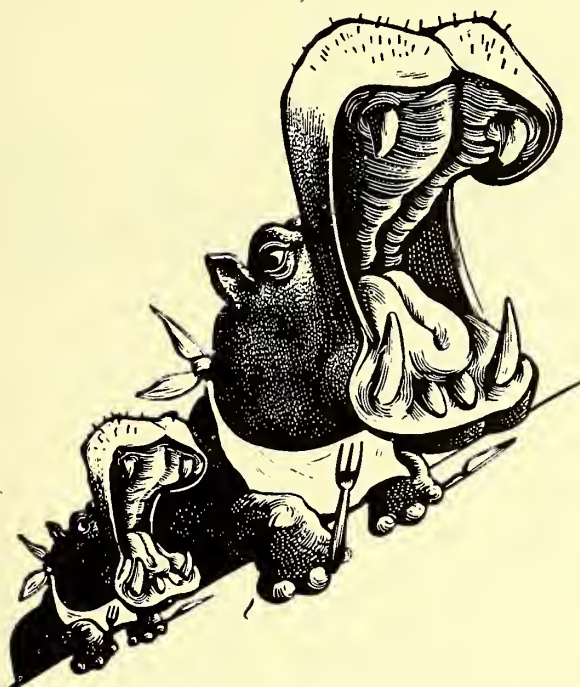
Enquiries Invited

WILLIAM BLYTHE & CO., LTD.HOLLAND BANK CHEMICAL WORKS, CHURCH
LANCASHIRE

Tel : 2141/2 ACCRINGTON

Grams : BLYCO, CHURCH

NEURO PHOSPHATES



NEURO PHOSPHATES

the tonic
that restores
appetite



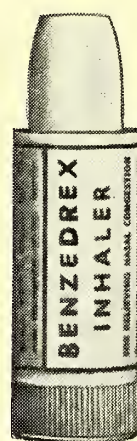
SMITH KLINE & FRENCH LABORATORIES LTD
WELWYN GARDEN CITY, HERTS

BXN:TA39

'Neuro-Phosphates' is a trade mark



because



BENZEDREX INHALER

contains propylhexedrine, a volatile
drug specifically developed to pro-
vide rapid and prolonged vasocon-
striction

**benzedrex inhaler
relieves nasal congestion
in a few seconds.**



SMITH KLINE & FRENCH LABORATORIES LTD
WELWYN GARDEN CITY, HERTS

BXN:TA39

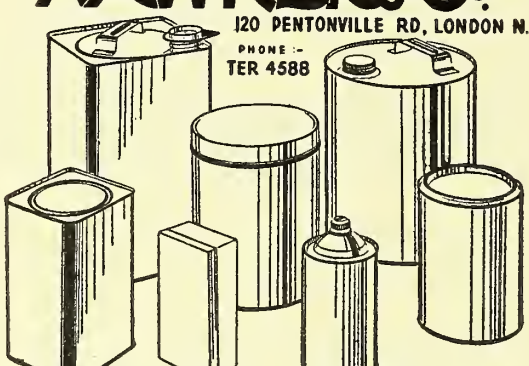
'Benzedrex' is a trade mark

GUM TRAGACANTH
GUM KARAYA
WHOLE AND POWDERED
DIRECT IMPORTERS

M. HAMBURGER & SONS
LIMITED
Plantation House
MINCING LANE • LONDON E.C.3

Phone: MANSION HOUSE 4405 (3 lines)

HAWKER & Co.
120 DENTONVILLE RD, LONDON N.1
PHONE: TER 4588



OVER 1'9D
PROFIT
IN THE TILL

KEARSLEYS PILLS
WIDOW WELCH'S

Over 1/9 BOX PROFIT by ordering 1 dozen 6/3 size. Bonus given on every dozen (13). It pays to push this size.

C. & G. KEARSLEY LTD.
71 DARTMOUTH ROAD, LONDON, S.E.23

FWS

It's Victory V weather again!



Powerful advertisements on ITV and in the National Press are now continually appearing. **RESULTS DEPEND ON YOU!** Stock more Victory V . . . Display more Victory V . . . Sell more Victory V.

Display Victory V on your counter!
VICTORY FACTORIES, NELSON, LANCASHIRE.

PRICES REDUCED

HARDWOOD APPLICATORS
100 boxes and over 3/2 per box, 50 to 99 boxes 3/6 per box under 50 boxes 4/- per box. Standard pack, 6 gross to a box

IMMEDIATE DELIVERY FROM LONDON STOCKS

TONGUE DEPRESSORS
LOWEST PRICES SINCE THE WAR
Size 6in. x 3/4in. x 2mm. thick. Prime Hardwood perfectly finished
Boxed 100's Minimum order 10,000
Wholesale Houses only supplied

ASHWOOD TIMBER INDUSTRIES LTD.
Specialists in Veneer and Plywood Products for all Trades
IBEX HOUSE • MINORIES • LONDON, E.C.3
Tel: ROYal 2494 Cables: ASHTIM, LONDON

STOCK UP WITH

SYNFOAM SUPER SPONGE
(HONEYCOMB • ALL-PURPOSE • FULLY SYNTHETIC)
FOR A PROSPEROUS 1960!

STANDARD SIZE (Approx. 5" x 3 1/2" x 1 1/2") Retail Price 2/10
LARGE SIZE (Approx. 5 1/2" x 3 1/2" x 1 1/2") Retail Price 3/9
USUAL DISCOUNTS

Each Sponge in a 3-coloured transparent sleeve—Each dozen in 4-coloured show carton—12 dozens in Cardboard Box.

Obtainable from YOUR USUAL WHOLESALER or contact
FLETCHER & FARLOW LTD., Finsbury Court, Finsbury Pavement, London, E.C.2. Tel: MONarch 6810

"SYNFOAM SUPER" SELLS ON SIGHT!



Indispensable in your business

FALCONCRAFT PRICE EDGING

SHELF EDGE TICKET SYSTEMS

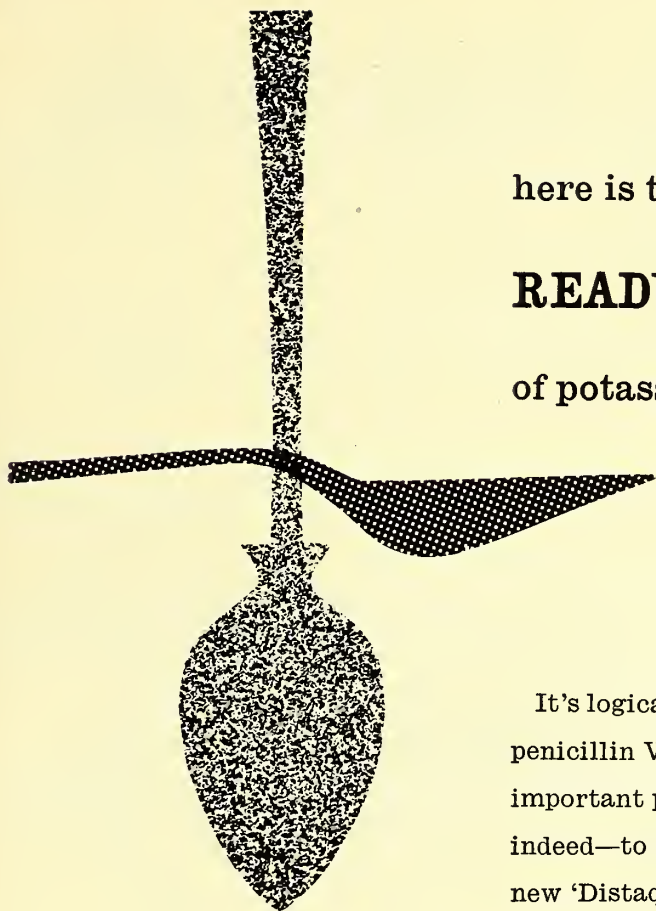
Hygienic glazed plastic Tickets for Metal, Plastic or Wood Beading

also **FASCIA LETTERING** Distinctive Permanent • Easy-to-clean

Numerous standard designs or to customer's own specifications

and **COMMODITY & SERVICE SIGNS** ("COSMETICS," "DRUGS," "PHOTOGRAPHIC" etc). Engraved or applied on perspex background

FALCONCRAFT LTD. Dept 1, 91 HAINAULT ROAD • ROMFORD • ESSEX • Tel: Romford 61911-2



the most efficient
oral penicillin
... in a most
acceptable form

here is the first

READY-PREPARED Suspension

of potassium penicillin V

It's logical enough that the pioneers of Britain's penicillin V should be first again with another important penicillin development. For important indeed—to doctor and pharmacist alike—is the new 'Distaquaine' V-K Suspension. It is Britain's first *ready-prepared* suspension of potassium penicillin V, and can be dispensed without any preliminaries. It is pleasant-tasting, too, and is suitable for patients of every age. That's why you'll be seeing more and more prescriptions for . . .

DQV-K

SUSPENSION

'Distaquaine' V-K

(POTASSIUM PENICILLIN V)

125 mg. per 5 ml. in bottles of 60 ml. (approx. 2 fl. oz.). Trade Price—8s. 10d.

DC(BL)

THE DISTILLERS COMPANY (Biochemicals) LIMITED

BROADWAY HOUSE, THE BROADWAY, WIMBLEDON, LONDON, S.W.19 Telephone: LIBerty 6600

Owners of the trade mark 'Distaquaine'

A fine food—
**DELICIOUS AT
ANY TIME!**

Granose

YEX an appetising savoury spread which is fast becoming a family favourite. Makes delicious sandwiches, sauces, stews, soups and gravies. A delicious hot drink, with or without milk. Sales are steadily increasing—are your stocks sufficient?

16 oz.	8 oz.	3 oz.
5/3d.	3/-	1/4d.



GRANOSE FOODS LTD.

STANBOROUGH PARK, WATFORD, HERTFORDSHIRE.

*For acidosis ...
recommend*

**Rayner's
Lembar**
*all the year
hot or cold*

**Lemons, Glucose,
Scotch Barley & Sugar**
Controlled Resale Prices:

13oz 2s. 4d.

26oz 3s. 6d.



MADE BY RAYNER AND COMPANY LIMITED, LONDON, N.18

Chromatography

Eastman offers these purified cellulose derivatives which are well-known ion-exchange adsorbents:—

7798 Cellulose-ECTEOLA

**7392 N.N-Diethylaminoethyl-
Cellulose (DEAE-Cellulose)**

**7796 Carboxymethyl Cellulose Ether
(CM-Cellulose)**

All three can be regenerated even after use with strongly acid or basic solutions.

Do not forget that the above are only three out of 3,700 Eastman Organic Chemicals at your service.

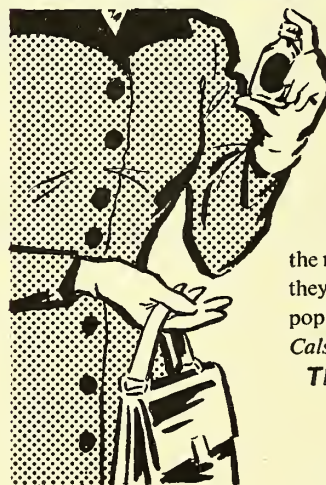
Kodak

LIMITED

Kirkby, Liverpool
Simonswood 2977



**customers and Calsalettes
go together**



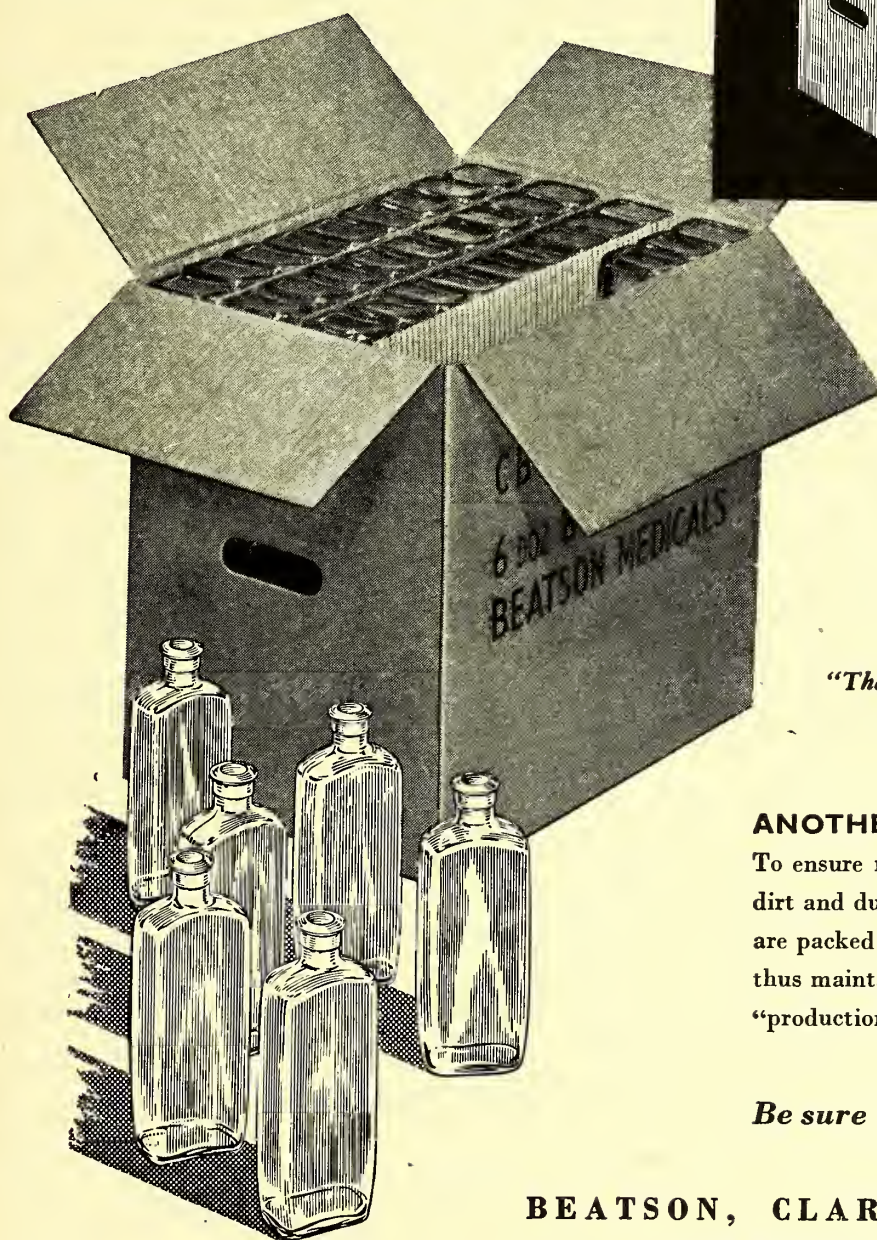
No wonder Calsalette sales are increasing! A safe, pure laxative, backed by intensive advertising in the national and women's press, they are proving ever more popular. Be sure and stock Calsalettes.

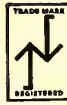
**THE TORBET LACTIC
OAT Co Ltd**

24 Great King Street,
Edinburgh 3

Phone: WAVErley 3801

*For cleaner storage . . .
The Beatson Medical
now in the
Beatson Sealed Carton*



"The Sign of a  Good Bottle"

ANOTHER BEATSON SERVICE!

To ensure maximum protection against dirt and dust, all Beatson Medicals are packed in the Beatson Sealed Carton thus maintaining the bottles in "production clean" condition until use.

Be sure to specify BEATSON

BEATSON, CLARK & CO. LTD.

GLASS BOTTLE MANUFACTURERS

ROTHERHAM

(Established 1751)

YORKSHIRE

DUNCAN PRODUCTS

made by pharmacists for pharmacists, include

haemamol

an antiseptic, emollient and analgesic cream, combining the astringent and soothing properties of hamamelis and zinc oxide and the analgesic effect of chlorbutol. 'Haemamol' gives quick relief in haemorrhoids, abrasions and skin irritations.

*Sells at 2s 6d. per tube inc. P.T.**In display outers of 1 dozen, from your usual wholesaler.*

DUNCAN FLOCKHART OF EDINBURGH

Duncan, Flockhart & Co. Ltd., Edinburgh 11

aha/291

Chiswick 1441

DALES PHARMACEUTICALS LTD.

Steeton 3222

POWER RD., CHISWICK, W.4 · BARROWS LANE, STEETON, KEIGHLEY, YORKS.

you can depend on **"DPL"** to make your tablets

B.P.

B.P.C.

N.F.

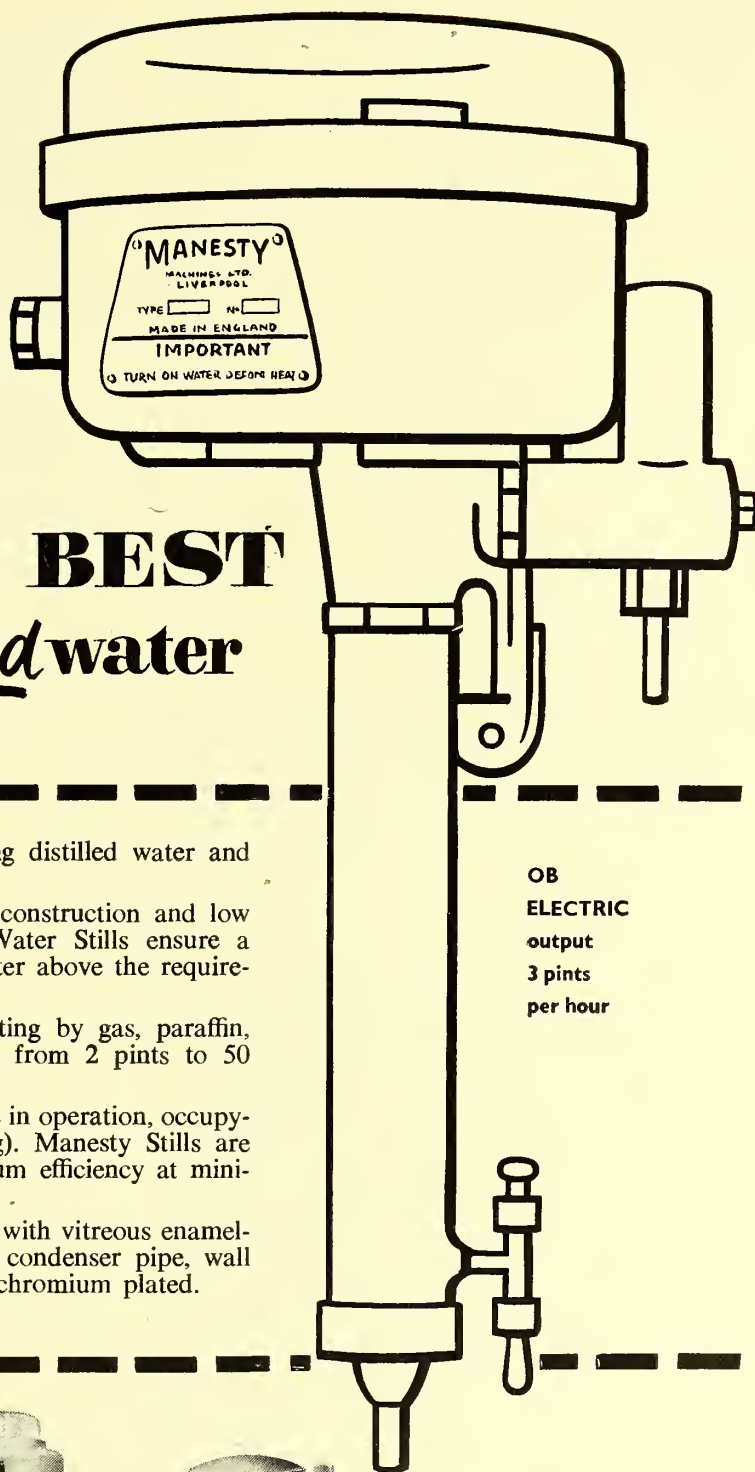
TABLETS TO YOUR OWN FORMULA**Malt and Cod Liver Oil***With the flavour that CANNOT be copied*

We are the premier firm supplying
Chemists "own name" packs

IMPORTANT

Make sure of your stocks
against the possibility of
severe Winter epidemics.

JEFFREYS, MILLER & COMPANY LIMITED, LEYLAND MILLS WIGAN

STILL THE BEST for *pure distilled water*

There is only one method of producing distilled water and that is by using a still.

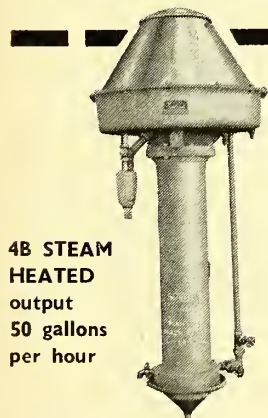
World famed for their design, careful construction and low cost of operation Manesty Automatic Water Stills ensure a constant supply of fresh pure distilled water above the requirement of the British Pharmacopoeia.

Nineteen models are available for heating by gas, paraffin, electricity or steam, with hourly outputs from 2 pints to 50 gallons.

Easy to install, automatic and continuous in operation, occupying no space (they are all wall-mounting). Manesty Stills are acknowledged the world over for maximum efficiency at minimum costs.

The OB and OOB models are available with vitreous enamelled boiling chamber (inside and outside) condenser pipe, wall bracket and weir chamber. Other fittings chromium plated.

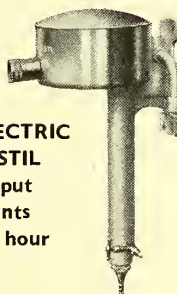
OB
ELECTRIC
output
3 pints
per hour



4B STEAM
HEATED
output
50 gallons
per hour



OOB
ELECTRIC
output
6 to 8 pints
per hour



ELECTRIC
DISTIL
output
2 pints
per hour

WRITE TODAY FOR FULL
DETAILS OF THESE MODELS

MANESTY

MACHINES LIMITED

SPEKE · LIVERPOOL 24

Telephone: Hunts Cross 1972

Telegrams: Manesty Liverpool 24

Technical Books for the Pharmacist's Library . . .

PHARMACEUTICAL FORMULAS, Vol. 1

The current edition (the 12th, published 1953) was completely revised to incorporate the latest formulations required by recent advances in medical science. It presents a comprehensive collection of pharmaceutical material from world-wide sources. A supplement (April, 1955) brings the book up to date with the changes effected in the British Pharmacopœia, 1953; British Pharmaceutical Codex, 1954; Pharmacopœia of Japan, and State Pharmacopœia of the U.S.S.R.
Price £2 0s. 0d. Postage 1s. 9d.

PHARMACEUTICAL FORMULAS, Vol. 2

11th Edition
Contains nearly 900 pages of formulas of adhesives, beverages, cosmetics, dental preparations, horticultural products, lacquers, perfumery, pesticides, toilet preparations, etc., etc. The work has undergone a thorough revision by a team of specialists and is unrivalled of its kind.

Price £2 2s. 0d. Postage 1s. 9d.

If Pharmaceutical Formulas Volumes 1 and 2 are ordered together the combined cost is reduced to £3 17s. 6d. Postage 2s. 6d.

CHEMIST'S DICTIONARY OF MEDICAL TERMS

7th Edition
Prepared primarily for pharmacists, the Dictionary is indispensable also for pharmaceutical manufacturers, advertisement writers concerned with the marketing of medicinal products and indeed all who have to delve into the multifarious medicinal compounds of modern times.

Price 17s. 6d. Postage 9d.

DISEASES AND REMEDIES

10th Edition, 1955
Contains numerous additions made since the 9th edition (published 1953), which was completely rewritten. The book is a concise survey of the most modern methods of medicine. It provides pharmacists with a text-book of information on the treatment of diseases and the drugs used. Accepted methods are explained, and the medi-

caments mentioned include some of very recent introduction.

Price 15s. 0d. Postage 8d.

ESSENTIALS OF TREATMENT

1st Edition, 1956

A companion volume to "Diseases and Remedies." An informed and sage approach to the newer drugs in relation to traditional remedies and a placing in proper perspective of medicine, surgery and good nursing in the restoration of patients to health.

Price 17s. 6d. Postage 9d.

THE ART OF DISPENSING

12th Edition, 1953

The most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter. New ideas have been incorporated and scientific knowledge has been added to the "art" formerly based on skilful training during apprenticeship. Experience gained in pharmacies of international repute is placed at the disposal of readers.

Price £1 1s. 0d. Postage 1s. 4d.

CHEMIST'S VETERINARY HANDBOOK

11th Edition

Formerly Veterinary Counter Practice.

Provides the pharmacist with adequate and up-to-date information on animal diseases, their causes and the drugs used in their control, thus enabling him to answer the inquiries and meet the requirements of members of the veterinary profession; to dispense their prescriptions; and to handle with knowledge the goods that farmers, poultry keepers and pet owners are accustomed to buy from him.

Price £1 7s. 6d. Postage 1s. 2d.

THE PHARMACY OF SILICONES AND THEIR USES IN MEDICINE

1st Edition, 1958

By RONALD LEVIN, F.P.S.

The silicones are a group of compounds of growing importance. To the pharmacist, engaged in whatever sphere, this book provides both interest and enlightenment. The author has taken extreme care to tap all available sources of information on the

subject, and gives his readers the benefit of his findings. There is also an extensive bibliography.

Price 15s. 0d. Postage 8d.

CHEMIST'S DICTIONARY OF SYNONYMS

(Incorporating "Rouses Synonyms for the use of chemists, their assistants and apprentices.") Contains the best features and most essential information of its predecessors. An extremely useful handbook in solving queries that arise at inconvenient moments.

Price 8s. 6d. Postage 7d.

THE FITTING OF TRUSSES AND ELASTIC HOSIERY

2nd Edition, 1955

This most popular and practical guide has been rewritten and is presented in an even more convenient form, with linson cover and in a page size enabling it to be slipped into the pocket. It gives information also on the supply of other appliances permitted under the National Health Service. Adequately illustrated.

Price 4s. 6d. Postage 2d.

C. & D. REFRESHER COURSE FOR PHARMACISTS

2nd Edition, 1956

First printed as a series of articles in THE CHEMIST AND DRUGGIST, the text has been overhauled to bring the course into line with changes that have taken place since 1952. Deals with recent advances in pharmaceuticals in a simple and concise manner.

Price 7s. 6d. Postage 4d.

A MODERN COURSE OF PHOTO- GRAPHIC STUDIES

By Dr. H. BAINES, F.R.I.C., F.I.B.P., Hon. F.R.P.S., and specialist collaborators.

Lucidly imparts in orderly steps and with ample diagrams and illustrations the scientific, technical and other knowledge demanded of entrants to the examinations of the Photographic Dealers' Association.

Price 7s. 6d. Postage 7d.

THE CHEMIST AND DRUGGIST, 28 Essex Street, Strand, London, W.C.2. CENTral 6565

**"90%
satisfactory
response
obtained in
ambulant
patients"**

"The immediate clinical results were assessed after the first month's treatment (with Roter Tablets) 81% of cases became symptom-free—70% of them during the first week and 30% during the second week; a further 9% were relieved of the majority of their symptoms. Thus there was a satisfactory response in 90% of cases In 75% of cases the patients found they were able to take foods which they had avoided for years."

Extract from the **BRITISH MEDICAL JOURNAL**
(1955) 2, 827

IMPROVED THERAPY FOR PEPTIC ULCER

"In a series of 155 cases of peptic ulcer treated with . . . (Roter) tablets for three to six weeks, there was immediate relief of pain in 92% of cases and roentgenological healing of the ulcer in 81% . . . The special features of this medication are immediate and prolonged relief of pain, correction of gastric hyperacidity, absence of side reactions, effectiveness for ambulatory patients, and early healing of the ulcer in most cases."

Extract from the **AMERICAN JOURNAL OF
GASTROENTEROLOGY** (1957) 28, 439

**"Immediate
relief of
pain in
92%
of cases"**



TABLETS

PACKINGS: Retail Prices including P.T. Trial size 40 tablets 7/3d., Standard size 120 tablets 20/7d. Full treatment size 640 tablets 103/3d.; Dispensing packs 720 tablets. P.T. exempt.

OBTAINABLE FROM YOUR USUAL WHOLESALE

ROTER Tablets are not advertised to the public and may be prescribed on E.C.10 forms. Literature on request
F.A.I.R. LABORATORIES LTD TWICKENHAM MIDDLESEX



The
"PUNGOR" type
 HIGH-FREQUENCY
 TITRIMETER . . .



. . . operates in the
 vicinity of the 150 Mc. frequency.

It can be used for the determination of acids and
 bases in aqueous and non-aqueous solvents. It lends
 itself to precipitation tests as encountered in argentometric
 measurement or in sulphate and alkaloid determination, etc.
 It permits the temporal variations of fluids in enclosed ampoules to be
 observed by watching the changes of the conductivity.
 Finally, it can be used as an indicator for process
 inside ion exchanging columns.



METRIMPEX

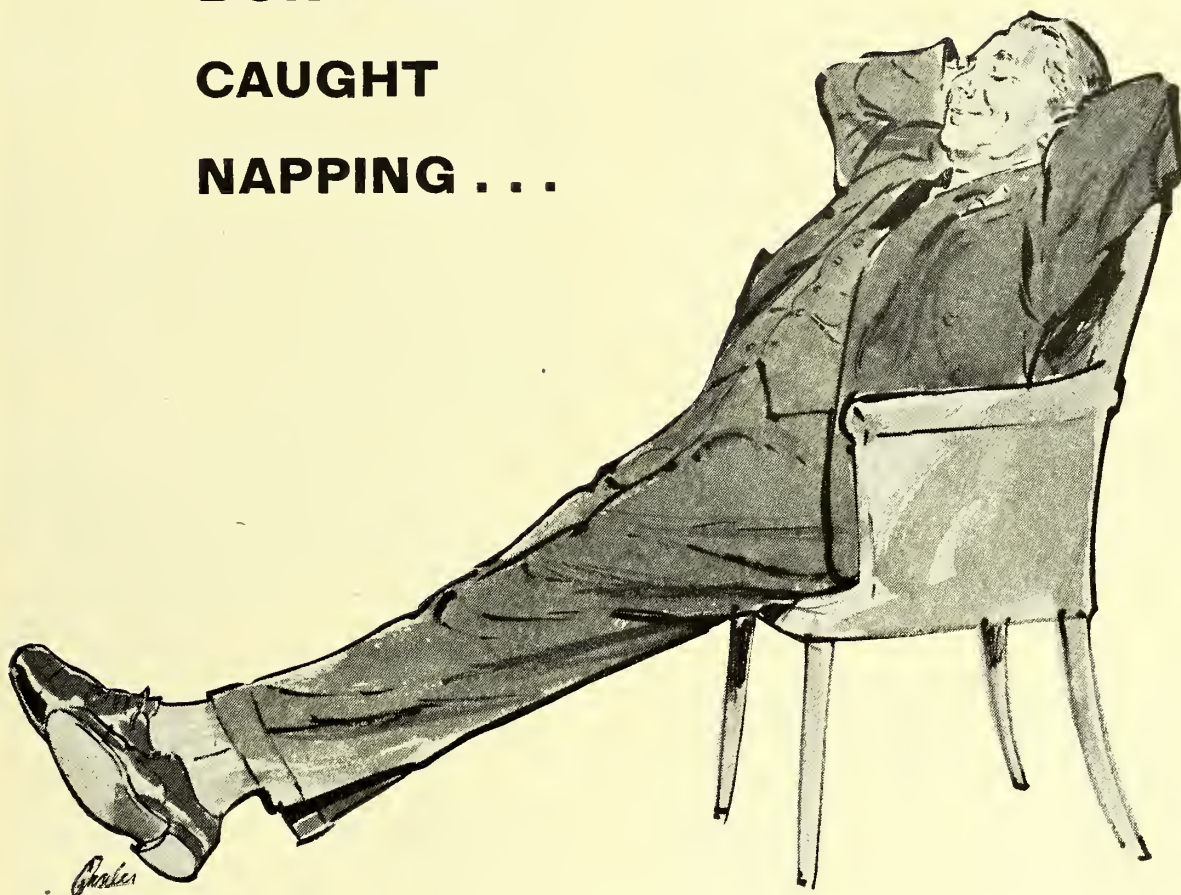
Exporter :

Hungarian Trading Company for Instruments

Letters: Budapest 62, P.O.B. 202

Telegrams: INSTRUMENT BUDAPEST

DON'T BE CAUGHT NAPPING . . .



Don't think that because the D & P trade has quietened down photographers are no longer active. Now that the long winter evenings are here they have time to do their own developing and printing. *So don't be caught napping.* Stock and sell the chemicals photographers know and trust: Johnsons. There's a really worthwhile profit to be made from Johnson Chemicals all through the winter.

JOHNSONS
OF HENDON LTD

CHEMICALS

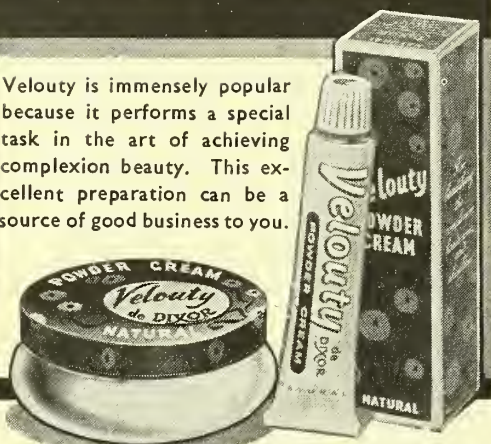
PACTUM MQ • ULTRAFIX • UNITOL • UNIVERSOL • FIX-SOL • FIXADON • ACID HYPO

Velouty

de DIXOR

POWDER CREAM

Velouty is immensely popular because it performs a special task in the art of achieving complexion beauty. This excellent preparation can be a source of good business to you.



Shades
IVORY NATURAL PEACH SUNGOLD
OCHRE APRICOT and RACHEL
TUBES No. 2 No. 3
TRADE 7/6 doz. 12/3 doz. RETAIL 1/3 ea. 2/1 ea.
JARS: TRADE 17/2 doz. RETAIL 2/11

Velpuff

CREAM

POWDER COMPACT

Velpuff is a perfect creamy base, with the softest, finest powder. Ready to be smoothed on with its own puff, it stays matt for hours.

LUXURY CASE
 WITH MIRROR
 Retail 5/7 each
 WHOLESALE
 33/6 per doz.
 4 SHADES
FASCINATION
 (Natural)
ENCHANTMENT
 (Rachel)
MISTIC TOUCH
 (Peach)
IRRESISTIBLE
 (Brunette)
 Also No. 1 Size
 (Metal Case)
 Retail 3/2
 Wholesale 18/8 doz.



DIXOR
Limited

ST. LEONARD'S RD
 MORTLAKE
 LONDON. S.W. 14



PRESSWORK, TINS, CANISTERS
 DECORATED METAL BOXES
 CONTAINERS OF ALL KINDS
 DRUMS AND KEGS



**MODERN PACKAGES
 LIMITED**

PHOENIX WORKS

UXBRIDGE 8535-6-7-8

You cannot do better than specify **COCKER**

P.C.M.X. and D.C.M.X.

For many years we have been large-scale manufacturers of these widely-used intermediates for which we should be pleased to receive your enquiries and to submit samples at your request.

In addition we should like to draw your attention to the undermentioned selection from our production of fine chemicals.

D.D.T. (and certain formulations)

Terpineol B.P. and Perfumery

Chlorxylenol fractions

Chlorinated Cyanuric Acids

Dichlorophenol

P.C.O.C.

Chloral Hydrate B.P.

Terpinolene

M.B.T.

M.B.T.S.

Benzylated-Cresylic-Acid

Chloral Anhydrous

Ortho Benzyl parachlorophenol

The finest of the fine from :

COCKER CHEMICAL CO. LTD. (Dept. CD.)

OSWALDTWISTLE · LANCASHIRE

Telephone : Accrington 3621-3



**A GLOVE
FOR
EVERY
HOUSEHOLD
AND
INDUSTRIAL
NEED**

Attractive household gloves in colourful designs, plastic dot or chemical and oil proof plastic covered gauntlet and knit-wrist styles in display cartons for your counter. Write for details.



Tedson, Thornley & Co. Ltd., (Rochdale, CD) Lancs.



Rheumatism, Lumbago and Neuralgia disappear

Tubes (2/3) 15/6 doz. Family size jars (3/6) 24/- doz.

Manufactured by
BROOK, PARKER & CO. LTD., BRADFORD, ENGLAND

PHARMACEUTICAL FORMULAS

VOL. II

900 pages of FORMULAS

ADHESIVES · COSMETICS · DENTAL PREPARATIONS · HORTICULTURAL PRODUCTS
PERFUMERY · PESTICIDES · TOILET PREPARATIONS
VETERINARY PREPARATIONS

Thoroughly revised by a team of specialists ● Unrivalled of its kind

PRICE **42/-** postage 1/9d.

Order direct from:

THE CHEMIST & DRUGGIST
28 ESSEX ST., STRAND, LONDON, W.C.2

The
CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS

Telephone: CENTRAL 6565

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2

Specialty spaced Advertisements, including:—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 20/- per 1/2 inch minimum and pro rata. Box 2/-. Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Agencies Wanted, Miscellaneous, 20/- for 36 words minimum; then 6d. per word. Box 2/-. Situations Vacant, 15/- for 36 words minimum, then 6d. per word. Box 2/-. Situations Wanted, 4/- for 18 words minimum then 3d. per word. Box 1/-.

ORRIDGE & COMPANY

184 STRAND, W.C.2

Tel: TEMple Bar 9212/3 & 6340

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL
BRANCHES: BIRMINGHAM • SOUTHAMPTON • LIVERPOOL • SHEFFIELD • CARDIFF

PREMISES TO LET

HOLTSPUR, near Beaconsfield. Shops and Flats to let in this rapidly expanding area. (Two left only.) Chemist still wanted. Apply C. F. Day, Ltd., 705 High Road, N.12. C 5935

APPOINTMENTS

ALTON GROUP HOSPITAL MANAGEMENT COMMITTEE, LORD MAYOR TRELOAR HOSPITAL, ALTON

Assistant-in-Dispensing
required with Apothecaries' Hall Certificate (preferably with hospital experience) for Group Pharmacy. Salary at age 22 £415 rising to a maximum of £530. Applications stating age and experience together with the names and addresses of two referees to the Group Secretary, Lord Mayor Treloar Orthopaedic Hospital, Hants. C 5019

BRISTOL MENTAL HOSPITAL, FISHPONDS

Assistant-in-Dispensing
required, preferably with Apothecaries' Hall Certificate. Salary according to age within scale £175-£510, with allowance of £20 for the Certificate. New entrants aged 22 and over enter at £395. The post is superannuable. Board residence if required. Applications giving age, details of experience and names of two referees should be sent to Secretary. C 5036

CELL BARNES HOSPITAL, ST. ALBANS, HERTS

Chief Pharmacist
required for small modern hospital for mental defectives within easy reach of London. Salary scale for Category I Hospital, £700 rising to £945 p.a. Apply to the Medical Superintendent, as above. C 5018

CRUMPSALL HOSPITAL, MANCHESTER, 8

Pharmacist
Applications are invited for the above post. Whitley Council conditions of service. Applications stating age and experience together with the names and addresses of two referees to be forwarded to the Hospital Administrator, as soon as possible. C 9993

KING EDWARD VII HOSPITAL, WINDSOR

Locum Pharmacist
required. Salary £18 18s. per week. Applications to Secretary. C 5021

PHARMACEUTICAL COMMITTEE FOR THE COUNTY OF LONDON (National Health Service)

APPOINTMENT OF SECRETARY

Applications are invited from Pharmaceutical Chemists for the whole-time position of Secretary to the London Pharmaceutical Committee. The salary will be a matter for negotiation, and there will be participation in the Committee's non-contributory Superannuation Scheme after an initial period of service.

Applications in writing, stating age, qualifications and experience should be sent to:—

E. N. PRINGLE, M.P.S.,
Chairman of the London Pharmaceutical Committee,
233-6 Bank Chambers,
329 High Holborn,
London, W.C.1. C 2606

CELL BARNES HOSPITAL, ST. ALBANS, HERTS

Dispensing Assistant
required. Small modern hospital for mental defectives. Salary scale £395 to £510 p.a. Commencing rate according to age. Additional payment for qualification. Apply to the Medical Superintendent, as above. C 5017

HIGHBURY HOSPITAL, HIGHBURY ROAD, BULWELL, NOTTINGHAM

Pharmacist
Applications are invited for the above appointment. The post offers good opportunity to obtain experience in general pharmaceutical work. Salary £605 plus £30 rising to £815. Apply stating age, qualifications, experience and names of two referees to Hospital Secretary. C 5002

HOSPITALS FOR DISEASES OF THE CHEST, THE LONDON CHEST HOSPITAL

Senior Pharmacist
Applications are invited for the above post at this hospital. Salary in accordance with the Whitley Council scales. Applications, stating age, qualifications and experience, accompanied by two testimonials, to the House Governor, London Chest Hospital, E.2. C 5033

KING EDWARD VII HOSPITAL, WINDSOR (Category III)

Pharmacist
required immediately. Whitley salary. Applications giving details of service to Secretary. C 5022

LEYTONSTONE (No. 10) HOSPITAL GROUP, WHIPPS CROSS HOSPITAL, LONDON, E.11 (Category V Hospital)

Pharmacist
Applications are invited for the above post. Applications for part-time Pharmacists will be considered. The hospital is ideally situated, being on the Central Underground Line within 20 minutes of Central London. Application forms from the Hospital Secretary to be returned as soon as possible. C 492

KING EDWARD VII HOSPITAL, WINDSOR

Assistant-in-Dispensing
required. Applications to Secretary. C 5020

MAIDENHEAD HOSPITAL, BERKSHIRE

Dispensing Assistant
required to assist Chief Pharmacist. Applications giving qualifications and any experience, with two referees to Secretary. C 5024

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8

Locum Pharmacist
required to work in a modern department. Apply to Hospital Secretary. C 445

ROYAL HALIFAX INFIRMARY

Pharmacist
Applications are invited for the above post at this hospital. Salary and conditions of service in accordance with Whitley Council Agreements. Applications, with names and addresses of two referees to be forwarded to the Group Secretary, Royal Halifax Infirmary, Halifax. C 5029

THE ROYAL INFIRMARY OF EDINBURGH AND ASSOCIATED HOSPITALS (1,452 beds)

Deputy Chief Pharmacist (Category V)
Applications are invited for the above post. Salary £755 to £1,030. Excellent teaching hospital experience for keen pharmacist. Details of career and names of two employer referees should be addressed in writing to Personnel Office, Royal Infirmary, Edinburgh, 3. C 5015

ERNEST J. GEORGE & CO.

329 HIGH HOLBORN, LONDON W.C.1.

Telephone: HOLBORN 7406/7

*Professional Valuers to the Pharmaceutical Trade.— Wholesale, Retail and
Hospital Stocks, Branches throughout England and Scotland.*

Appointments—Continued**SOUTH-WEST DURHAM
HOSPITAL MANAGEMENT
COMMITTEE****Pharmacist**

whole-time or part-time required for duties at Bishop Auckland General Hospital and at Holywood Hall Hospital, Wolsingham. Salary £605-£815 a year plus £25 if holding a higher qualification, N.H.S. conditions and superannuation. Application forms from the undersigned to be returned by January 22, 1960.

K. G. T. LUXFORD,
Group Secretary/Finance Officer,
C 5034

**WEST MIDDLESEX HOSPITAL,
ISLEWORTH, MIDDLESEX****Assistant-in-Dispensing**

required in Pharmaceutical Department for varied duties. Salary £395 per annum at age 22, rising to £510, plus London Weighting (additional payment of £20 per annum for suitable qualifications).
Apply giving names of two referees to the Chief Pharmacist. C 480

TEACHING APPOINTMENTS**NEW ZEALAND SCHOOL OF
PHARMACY,
SECOND YEAR STAFF**

Applications are invited for the following positions:—

Assistant Tutor or Tutor in Pharmaceutics.

Assistant Tutor or Tutor in Pharmaceutical Chemistry.

Assistant Tutor or Tutor in Pharmacognosy.

Applicants should possess a degree or registrable qualification in pharmacy. A post-graduate qualification, teaching or research experience would be an additional advantage.

The new School of Pharmacy will open in February 1960, at the Central Technical College, Petone, and will provide a two-year full-time course with 75 students in each year. The subjects covered in the first year are Chemistry, Physics and Biology and the second year of professional studies will start in 1961.
Salary: Tutor—£1,180 x £50—£1,380.

Asst. Tutor—£880 x £50—£1,180.

These salary scales will apply to both male and female staff. The appointees will be expected to take up their duties in February 1961. Further details may be obtained from the High Commissioner for New Zealand, 415 Strand, London, W.C.2.

Completed applications must be lodged in London not later than March 1, 1960. C 5025

EDUCATIONAL**LONDON COLLEGE OF
PHARMACY AND CHEMISTRY
FOR WOMEN**

7 Westbourne Park Road, W.2

Established 1892

The only College in S.E. England teaching exclusively for the Assistants-in-Dispensing Examination of the Society of Apothecaries. Enrolling now for six months' full-time or 2-year part-time course for Student Dispensers under 1956 Regulations, 100 per cent. Examination successes in 1958. C 404

SITUATIONS VACANT**RETAIL (HOME)**

APPLICATIONS ARE INVITED from Pharmacists, men or women, including those newly qualified, for position as Manager or Manageress of modern pharmacy with excellent dispensing connection on borders of Kent and London. Salary and commission in excess of £1,100 per annum. Good supporting staff. Superannuation scheme. The position is permanent and there are opportunities for promotion. House available if required in pleasant locality within easy travelling distance. Apply stating age and experience to the Superintendent Chemist, Royal Arsenal Co-operative Chemists, Ltd., 147 Powis Street, Woolwich, S.E.18. C 2612

ASHTON-IN-MAKERFIELD, near Wigan. Experienced pharmacist required in old-established business. Good supporting staff. Excellent salary offered. Apply W. B. Fairless, M.P.S., F.B.O.A., Ashton-in-Makerfield, nr. Wigan. (Phone: A-in-M 7190.) C 2589

ASTONS OF WORTHING invite applications from experienced pharmacists for the position of manager of a large branch pharmacy. Heavy dispensing practise and very seasonal counter trading. Experience in all branches of retail pharmacy is absolutely essential. The position is a responsible one and carries proportionate remuneration. Replies in strict confidence to: W. Aston & Co., Ltd., 25-27 Montague Street, Worthing, Sussex. C 2586

DISPENSARY ASSISTANT (unqualified) required by the Army & Navy Stores, Ltd. Half-day Saturday. No late evenings: Apply Staff Office, 12 Artillery Row, Victoria, S.W.1. C 5031

FIRST SALESMAN required for head shop of large West country photodealer with expanding business. High standard of technical and retail experience essential. Box C 499.

HAMPSHIRE. Qualified manager required for established retail chemist shop—one hour from London and coast—confidently recommended by retiring manager. £1,000 and free modern 3-bed-roomed self-contained maisonnette and garage. Good staff, normal hours, no rota. Box C 2604

HULL. Pharmacist required to manage old-established business. Salary of £1,200 per annum and share of profits to suitable applicant. Opportunity to acquire a holding in the Company and to become a Director. Applications for Managership to Spilman (Chemists), Ltd., c/o Scotter & Co., 2 Story Street, Hull. C 2579

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for the position of pharmacy branch manager, either sex. Modern accommodation available if necessary. Superannuation. Salary and other emoluments at least £960. Applications giving age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham. C 454

PETERBOROUGH. Pharmacists required to supervise our main branch. Inclusive salary to commence £24 per week. This is a congenial post in a pleasant locality with an attractive house available at a reasonable rent. Superannuation, sickness benefits and three weeks' holiday. Interview by appointment at our expense. Apply with references to Peterborough Co-operative Chemists, Ltd., Park Road, Peterborough. C 2592

PHARMACIST required shortly for relief duties, mainly South London area. This is a permanent position but we would agree to a one-year's basis if required. Excellent experience in all types of adequately staffed pharmacies where applicant would be in full control. Please give all details of age, experience, etc., in confidence, to Arnold M. Gee, Ltd., 12 High Street, Colliers Wood, S.W.19. C 2609

PERFUMERY DEPT. of the Army & Navy Stores, Ltd., requires Senior Sales Assistant, able to take charge in Buyer's absence. Apply Staff Office, 12 Artillery Row, Victoria, S.W.1. C 5030

RETAIL (OVERSEAS)

QUALIFIED EUROPEAN MANAGER (male) required for service in West Africa. Eighteen months tours with subsequent leave of approximately four months on full pay. Progressive salary commencing £1,200 p.a. Free furnished accommodation in West Africa, passage paid, free medical attention, Low income tax. Contributory pension scheme. Initial kit allowance. Applicants should be under 35 years of age, preferably single. Reply giving full details age, experience, etc., to West African Drug Co., Ltd., Spinney House, Church Street, Liverpool. C 2594

RHODESIA. Excellent climate, low income tax. Male assistants (preferably unmarried) required for counter and dispensing work in busy retail pharmacies in modern towns throughout Northern Rhodesia. Free housing, passages paid out, three years' contract, and return passage allowance of £100 granted at end of contract. Forty days' leave per year. Minimum commencing salary, qualified, £90 per month; unqualified, £60 per month. Applications together with copy of references to: Holdsworths (Chemists), Ltd., P.O. Box 20, Broken Hill, Northern Rhodesia. C 2597

WHOLESALE

ABBOTT LABORATORIES, LTD., have vacancies for young pharmacists in their development section concerned with formulations of new products. Experience not essential but candidates must possess initiative and have aptitude for this type of work. Five-day week, pension scheme, etc. Apply the Secretary, Ref. H. L., Abbott Laboratories, Ltd., Bede Trading Estate, Jarrow-on-Tyne, co. Durham. C 2583

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2. Representatives. Applications are invited from Pharmacists who will be required to call on doctors and chemists in the Manchester and South-east Scotland areas. Training will be given and the salary will be commensurate with qualifications and experience. A car will be provided and full expenses are paid. Apply in writing giving full details of age, qualifications and experience to Personnel Manager, quoting ref. M.R. C 5037

APPLICATIONS INVITED: Post of representative for Rames & Co., Ltd., "Micklegate House," York (Wholesale Chemists), to call on retail chemists. Territory: South Yorkshire and North Notts. Preferably with previous experience in wholesale or retail pharmacy. Permanent appointment, good prospects, salary plus commission, car provided. All expenses met. Please give details of age, sales experience, present salary, to Sales Director at the above address. C 5013

ENERGETIC SALESMEN of proven ability capable of earning £1,000 minimum required for following areas:—(1) London, East and South-eastern Counties; (2) South and South-western Counties; (3) Midlands and (4) Northern England. The company manufactures nationally advertised veterinary and agricultural products distributed to chemists, agricultural merchants, ironmongers, etc. To first-class men we offer salary, commission, expenses, company car and free life assurance. Written applications with fullest details to Sales Director, Agricultural Division, C. F. Gerhardt, Ltd., New Era Works, Purley Way, Croydon, Surrey. C 2607

PARKE, DAVIS & COMPANY,

Invite applications from pharmacists for a junior executive position in their pharmaceutical manufacturing division. The position involves the supervision of groups of process workers, and offers an opportunity to gain wide experience in modern large-scale production methods. Some experience of tablet compressing and coating whilst desirable is not essential.

The terms of employment with the company are attractive and include a generous salary, pension and life assurance plan, and a five-day week.

Please apply in writing to: Personnel Manager, Parke, Davis & Company, Staines Road, Hounslow, Middlesex.

C 5035

PHARMACIST**BOB MARTIN LIMITED**

We are looking for a pharmacist or graduate in pharmacy to assist in the development of dietary products for small animals. Our research programme includes formulation on a laboratory scale, development of manufacturing processes and analytical studies of vitamin and other nutritional factors. Candidates should, therefore, have the necessary ability and experience to be able to contribute substantially to one or more aspects of this programme. There are excellent conditions of employment and a suitable salary will be offered, based on age and previous experience. Full applications should be addressed to the Chief Chemist, Bob Martin Limited, Southport, Lancs. C 5039

Situations Vacant—Continued

ASSISTANT SALES MANAGER required by old-established manufacturing chemists situated London area. Pharmaceutical or chemical qualification desirable though not essential, but commercial experience in this field required. Good prospects in a developing organisation for an energetic and conscientious candidate with initiative, aged about 25-30. Initial salary within the range £750 to £1,000 dependant on ability and experience. Reply Box C 5023.

EXPERIENCED REPRESENTATIVE required for well-introduced wholesale fashion jewellery warehouse in the North to carry jewellery as an additional line, on commission basis. Car and references essential. Box C 5011.

JOHN BELL, HILLS & LUCAS, LTD., require the services of a young pharmacist (lady or gentleman) to assist with general administrative duties including control of Dangerous Drugs and for dealing with technical queries. Apply: Managing Director, Oxford Works, Worsley Bridge Road, London, S.E.26. C 5032

EXPORT. Shipping Manager required by leading pharmaceutical manufacturers (Central London). Must be well-versed shipping procedure world markets, good organiser and used to high-pressure pace. Initially he will manage the shipping and forwarding department. Starting salary about £1,500 but a really alert, forward-thinking organiser could rapidly achieve greater responsibility and the commensurate salary. Apply in considerable detail, giving positions held and salary history to Box C 2596.

MANAGER for a new chemical department to start operating in February/March 1960, required by West End Export/Import Company. Age 30-45. Sales experience and contacts in general chemicals and pharmaceuticals, full knowledge of Export/Import and Re-Export procedure and good sense of organisation essential. Good prospects for a man with initiative. Salary commensurate with ability and experience; turnover bonus scheme in operation. Write to Box C 2605 giving full personal details and experience.

QUALIFIED CHEMIST required for senior position in established essential oil and aromatics laboratory. Good salary, non-contributory pension and assured future for man of ability and imagination. Write full details to Technical Director. Box C 5038.

REPRESENTATIVES with suitable connections for sunglass outlet. All areas for Jan., Feb. and March. Commission basis. Write Box C 5028.

U.C.A.L.

United Chemists Association, Ltd., have a vacancy for a Representative in the Yorkshire area.

The applicant, who must be resident on the territory, should have established connections with chemists. A pharmaceutical qualification and/or very good experience is essential.

The appointment is an important one, and only candidates with first-class selling experience should apply.

A company car is provided, and a pension scheme is in operation.

Applications, which will be treated in strict confidence, should give details of age, education, qualifications, experience, present salary, and should be sent to:—

Sales Manager,
United Chemists Association, Limited,
Ucal Works, Cheltenham.
C 5006

AGENTS WANTED

LIVE AGENTS wanted, by old-established manufacturers, for all areas of United Kingdom, to sell a new disinfectant to the wholesale and retail trade. This is a first-class quality guaranteed product of a new type being sold at an exceptionally keen retail price. It has already been tried out in certain areas with remarkable success and high repeat sales. Applicants must have good connection and should write stating other lines carried and territory covered. Generous commission will be paid. There will be no overlapping of areas. Box C 5027.

AGENT REQUIRED on commission and expenses basis, for the Counties of Kent, Surrey and Sussex, to take over existing agencies and appoint new ones for the sale of seeds and fertilisers for leading Midland Horticultural House. Write giving details of area covered, other lines carried and experience to Box C 2608.

SITUATIONS WANTED**RETAIL (HOME)**

PHARMACIST, N.I. qualification, eligible for registration Gt. Britain, experienced, desires situation London or district. Reply Box C 2611.

RETIRED, ACTIVE, unqualified, seeks part-time appointment retail pharmacy, seaside/country, wide experience pharmaceuticals, medical propaganda, business organising, accounts, correspondence. Highest references. Box C 2598.

WHOLESALE

COSMETIC CHEMIST, many years' experience as general, sales, and factory manager, seeks top executive position with reliable firm. Box C 2593.

EXPERIENCED REPRESENTATIVE with connection amongst chemists, etc., in 16 counties of England desires appointment with well-known drug, perfumery or cosmetics house, anywhere Great Britain or overseas. Box C 2587.

EXPORT. Frustrated senior sales executive, late thirties, travelled, seeks new opportunity. Many years' experience of marketing overseas medical specialities, food and toilet preparations of leading manufacturer. Box C 2601.

YOUNG REPRESENTATIVE. Three years calling on factory surgeries in Midlands, seeks change. Box C 2602.

WANTED

SURPLUS CAMERAS, ENLARGERS, CINE CAMERAS & PROJECTORS, PHOTOGRAPHIC EQUIPMENT OF EVERY DESCRIPTION, SURPLUS AND OUTDATED FILM & PAPER, LARGE OR SMALL QUANTITIES.
Phone, write or call:—

SPEARS
(Dept. D.), Watling Street, Shudehill, Manchester.
Phone: Deansgate 7705 (3 lines)
Bankers: Midland Bank, Ltd.

C 438

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—
Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11.
Tel.: Bayswater 4020 and 7692. C 140

MISCELLANEOUS SALES

NEWMAN BENCH MODEL labelling machine, November 1949, complete 230 volt motor and starter, completely overhauled makers 1955. Many extras, excellent condition, working order.

Cost £300, accept £100 or near offer.

Reade Brothers & Co., Ltd.,
Cleveland Road, Wolverhampton.

C 2610

WRITE FOR our greatly reduced clearance lines in fashion jewellery, ear-rings, necklaces, bangles, brooches, etc., many exclusive articles. Jodez (Manchester), Ltd., 8-10 Shudehill, Manchester, 4. Phone: Deansgate 6564. C 5012

SALES BY AUCTION

B. NORMAN & SON, 2-5 Little Britain (Close to G.P.O.), London, E.C.1, will sell by Auction, Wednesday, January 20, at 1.30 p.m., practically new light oak Shop Fixtures, Drug Run, Wall Showcases, Plate-glass Display Counters, Nests of Drawers, Mirrors, National Cash Registers, Office Furniture, Safes, Typewriters, etc. View day prior and morning of sale. Catalogues available. Mon. 8501/2. C 5016

FINANCE

FROM 5½% a competitive and substantial 1st and 2nd mortgage fund available for freehold/leasehold businesses, houses, flatlets, etc. £200 min. Write Cranbrook Insurance Bureau, 49 Cranbrook Road, Ilford, Essex. C 489

TENDERS**LANCASHIRE COUNTY COUNCIL**

Tenders are invited for the supply of Chiropody equipment during the period February 1, 1960, to January 31, 1961. Specifications and forms of tender from The County Medical Officer of Health, Room 109, East Cliff County Offices, Preston. Closing date for receipt of tenders January 23, 1960. C 5026

MISCELLANEOUS

AUTOMAT the **QUALITY** Vending Machine. For every user, 3 years' unconditional guarantee on all machines, buy, rental, or hire purchase. Automat Machine Sales, Ltd., 173 Elmers End Road, Beckenham, Kent. BECKENHAM 8282 (5 lines). C 494

BABY PANTS MANUFACTURERS—
WE BUY YOUR PLASTIC SCRAP
AT TOP PRICES.

MICHAEL S. STEVENS, LTD.,
75c Upper Richmond Road, S.W.15.
VANDYKE 6925
C 495

IS PRICING YOUR PROBLEM?**KENNETT PRICE MARKERS**

are ultra smart, beautifully designed solid plastic markers that will really sell your goods. Send now for free samples, absolutely no obligation. 55 Eastgate Street, Winchester, Hants. C 409

DEVELOPING AND PRINTING

QUALITY FIRST but **QUALITY FAST**

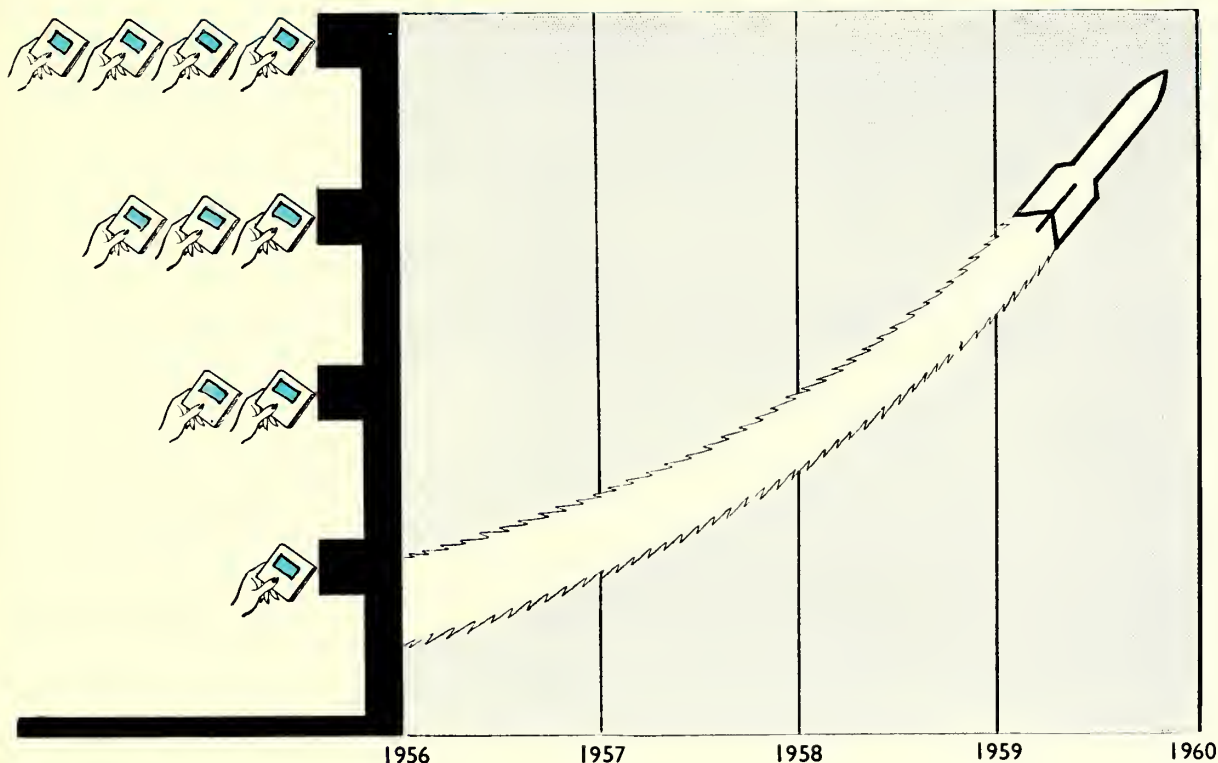
D and P

Guaranteed per return postal service
GWENT PHOTOGRAPHIC SERVICE
Snatchwood Works, Pontypool. MON
Telephone: Talywain 355
C274

GET ON A RISING SALES CURVE

WITH

handy ANDIES



This is the sales curve for Handy Andies over the last three years. Handy Andies are selling faster and faster all the time! Just put them on the counter in their free display carton and they sell themselves! They put at least 33 $\frac{1}{3}$ % profit in the till of every shop that displays them!

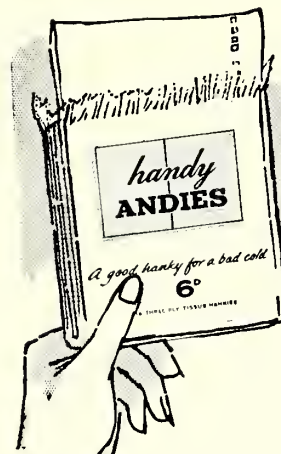
- ★ Handy Andies are softer, stronger—the only 3-PLY tissue hanky with 'wet-strength'
- ★ Profit—at least 2d. on every 6d. packet
- ★ Trade terms—4/- per display carton of one dozen (12 dozen cartons to a case)

This winter—a new development to send sales rocketing even higher
A NATIONAL NEWSPAPER ADVERTISING CAMPAIGN

Starting in January, regular large-size advertisements in:

DAILY MIRROR • DAILY EXPRESS

And in the London ITV area, appearances in "JIM'S INN" television magazine programme



MAKE SURE YOU PROFIT FULLY FROM THE BOWATER-SCOTT RANGE.
EXTRA DISCOUNTS START AT ONLY 2 CASES. Orders may cover one or a range of products.

ANOTHER FINE PAPER PRODUCT BY BOWATER-SCOTT

THEY SEE Valderma advertised on Television
in newspapers
in magazines



THEY HEAR Valderma praised by Doctors
by Nurses
by satisfied
users



THEY BUY Valderma when they see it
in window
and counter
displays



QUICK-SELLING PROFITABLE Valderma

ANTISEPTIC BALM AND SOAP

Dae Health Laboratories Ltd. 17 Berners Street, London, W.1. Museum 9515.